

APPENDIX A

ADEQ FORECAST PRODUCTS



MARICOPA COUNTY DUST CONTROL FORECAST

ISSUED Sunday, April 24, 2016

[Five-day weather outlook:](#)

Expect surface winds around 15-20 mph tomorrow in the Valley as the next trough moves through the Southwest. Unfortunately, as winds pick up speed, PM-10 becomes an issue. These strong winds have the potential to result in a slightly higher than the normal PM-10 activity we've seen in the Valley for the past few days. Isolated pockets of dust are possible. Therefore, expect to see particulate concentrations in the mid to upper Good range with a chance to hit the low Moderates. -P.Patel

R I S K F A C T O R S

	<u>WINDS</u>		<u>STAGNATION</u>		<u>UNHEALTHY PM-10 RISK LEVEL</u>
Day 1: Mon. 4/25/2016	Southerly winds 5 to 10 mph becoming southwesterly 20 to 25 mph, higher gusts possible.	+	No stagnation expected.	=	MODERATE
Day 2: Tue. 4/26/2016	Light winds early becoming west-southwesterly 10 to 20 mph.	+	Overnight and morning stagnation.	=	LOW
Day 3: Wed. 4/27/2016	Light winds early becoming west-southwesterly 5 to 15 mph.	+	Overnight and morning stagnation.	=	LOW

EXTENDED OUTLOOK

Day 4: Thu. 4/28/2016	Westerly winds around 10-15 mph.	+	Stagnation not expected.	=	LOW
Day 5: Fri. 4/29/2016	Light winds.	+	Stagnation not expected.	=	LOW

The Maricopa County Dust Control Action Forecast is issued to assist in the planning of work activities to help reduce dust pollution. To review the complete air quality forecast for the Phoenix metropolitan area, as well as the health impacts for different air pollutants refer to ADEQ's Air Quality Forecast at <http://www.azdeq.gov/environ/air/ozone/ensemble.pdf>.

Updated 4/4/2016



MARICOPA COUNTY DUST CONTROL FORECAST

ISSUED Monday, April 25, 2016

Five-day weather outlook:

A dry cold front approaches from the west this morning. Gusts in the Valley have already hit between 20 and 30 mph before 8 AM at some sites. Coverage and strength of winds increase during the afternoon. Can't rule out 40+ mph gusts at times. This is a region wide event and the National Weather Service has issued Wind Advisory products for nearly all of Arizona.

The last windy period for Metro Phoenix was back on April 15. Upper Moderates for PM-10 were observed. No rain has occurred since that date and projected winds are similar in nature, so pockets of blowing dust should be expected today. Winds begin to calm down later in the evening, but get on the breezy side again Tuesday afternoon. Thursday is when the next storm gets here and there might be enough moisture and instability for a few showers and t-storms. Stay tuned for additional information on that one. Friday and Saturday will feature more breezy afternoons. Daily risk levels beyond today are set at Low, for now.

—J.Malloy

R I S K F A C T O R S

	<u>WINDS</u>	<u>STAGNATION</u>	<u>UNHEALTHY PM-10 RISK LEVEL</u>
Day 1: Tue. 4/26/2016	Light winds early becoming west-southwesterly 10 to 20 mph.	+ Overnight and morning stagnation.	= LOW
Day 2: Wed. 4/27/2016	Light winds early becoming west-southwesterly 5 to 15 mph.	+ Overnight and morning stagnation.	= LOW
Day 3: Thu. 4/28/2016	Southwesterly winds around 10-15 mph.	+ Stagnation not expected.	= LOW

EXTENDED OUTLOOK

Day 4: Fri. 4/29/2016	Light winds early becoming west-southwesterly 10 to 20 mph.	+ Stagnation not expected.	= LOW
Day 5: Sat. 4/30/2016	Light winds early becoming west-southwesterly 10 to 20 mph.	+ Stagnation not expected.	= LOW

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MARICOPA COUNTY DUST CONTROL FORECAST

ISSUED Tuesday, April 26, 2016

Five-day weather outlook:

The cold frontal passage occurred a bit earlier than expected yesterday with winds picking up speed late morning rather than the mid to late afternoon. Because of this, PM-10 activity started a bit earlier as well. Strong winds associated with the front resulted in Valley wide hazy conditions that forced an exceedance at the West 43rd monitor while other monitors finished the day in the mid-Moderates.

As you may have noticed this morning, it's still a bit hazy here in the Valley since PM-10 levels are still slightly elevated. However, they should be on a decreasing trend as the day progresses. Moving forward, we'll be under this trough passage pattern for the remainder of this week. These upper-level disturbances will continue to bring breezy winds in the Valley with a chance for small amounts of scattered precipitation this weekend.

–P.Patel

R I S K F A C T O R S

	<u>WINDS</u>	<u>STAGNATION</u>	<u>UNHEALTHY PM-10 RISK LEVEL</u>
Day 1: Wed. 4/27/2016	Light winds early becoming west-southwesterly 5 to 15 mph.	+ Overnight and morning stagnation.	= LOW
Day 2: Thu. 4/28/2016	Southwesterly winds around 15-20 mph.	+ Stagnation not expected.	= MODERATE
Day 3: Fri. 4/29/2016	Light winds early becoming west-southwesterly 10 to 15 mph.	+ Stagnation not expected.	= LOW

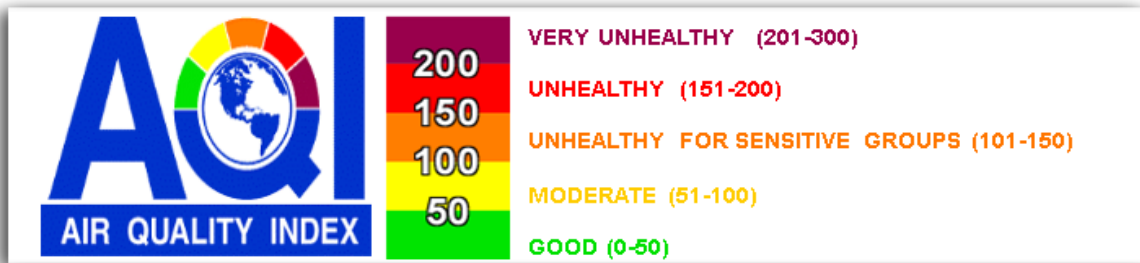
EXTENDED OUTLOOK

Day 4: Sat. 4/30/2016	Westerly winds around 20-25 mph.	+ Stagnation not expected.	= MODERATE
Day 5: Sun. 5/1/2016	Winds light and variable.	+ Light stagnation expected.	= LOW

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<http://www.azdeq.gov/environ/air/ozone/ensemble.pdf>.

Updated 4/4/2016



AIR QUALITY FORECAST ISSUED Sunday, April 24, 2016

This report is updated by 1:00 p.m. Sunday thru Friday and is valid for areas within and bordering Maricopa County in Arizona

FORECAST DATE	YESTERDAY Sat, 4/23/2016	TODAY Sun, 4/24/2016	TOMORROW Mon, 4/25/2016	EXTENDED Tue, 4/26/2016
NOTICES				
AIR POLLUTANT	Highest AQI Reading/Site (*Preliminary data only*)			
O3	90 Apache Junction	50 Good	44 Good	48 Good
CO	7 Diablo	8 Good	7 Good	6 Good
PM-10	32 Dysart	44 Good	46 Good	46 Good
PM-2.5	25 South Phoenix	28 Good	30 Good	30 Good

O3 = Ozone CO = Carbon Monoxide PM-10 = Particles 10 microns & smaller PM-2.5 = Particles smaller than 2.5 microns
 "PM-10 or PM-2.5 Health Watch" (HW) means that the highest concentration of PM-10 or PM-2.5 may approach the federal health standard.
 "High Pollution Advisory" (HPA) means that the highest concentration of OZONE, PM-10, or PM-2.5 may exceed the federal health standard.

Health Statements	
Sunday, 04/24/2016	No health impacts are expected.
Monday, 04/25/2016	No health impacts are expected.

SYNOPSIS AND DISCUSSION

Note: The Environmental Protection Agency has reduced the ozone health standard from 75 parts per billion (ppb) to 70 ppb. On January 1, 2016, the ADEQ Forecast Team began forecasting based off this new standard. For more information on the adjusted ozone standard click [here](#).

The presence of breezy winds yesterday kept ozone concentrations down in the Valley. With the next trough passage just around the corner, this trend is expected to continue. Expect surface winds around 15-20 mph tomorrow in the Valley that will help clear out the airshed and keep ozone down. Unfortunately, as winds pick up speed, PM-10 becomes an issue. These strong winds have the potential to result in a slightly higher than the normal PM-10 activity we've seen in the Valley for the past few days. Isolated pockets of dust are possible. Therefore, expect to see particulate concentrations in the mid to upper Good range with a chance to hit the low Moderates. Lastly, once the cold front associated with this trough passes through, temperatures will be cooler and level out in the upper-70s.

Check back on Sunday for a look ahead at next week's weather and air quality. Until then, have a great weekend! –P.Patel

USEFUL LINKS	
INTERACTIVE MAPS	http://alert.fcd.maricopa.gov/alert/Google/v3/air.html http://www.airnow.gov/
WEB CAMERA IMAGES	http://www.phoenixvis.net/

POLLUTION MONITOR READINGS FOR Saturday, April 23, 2016

O3 (OZONE)

SITE NAME	MAX 8-HR VALUE (PPB)	MAX AQI	AQI COLOR CODE
Alamo Lake	71	101	
Apache Junction	51	47	
Blue Point	52	48	
Buckeye	46	43	
Casa Grande	50	46	
Cave Creek	63	77	
Central Phoenix	51	47	
Dysart	54	50	
Falcon Field	52	48	
Fountain Hills	56	54	
Glendale	55	51	
Humboldt Mountain	61	71	
Phoenix Supersite	56	54	
Mesa	55	51	
North Phoenix	57	58	
Pinal Air Park	47	44	
Pinnacle Peak	53	49	
Queen Valley	55	51	
Rio Verde	58	61	
South Phoenix	50	46	

South Scottsdale	50	46	
Tempe	51	47	
Tonto Nat'l Mon.	54	50	
West Chandler	55	51	
West Phoenix	50	46	
Yuma	62	74	

CO (CARBON MONOXIDE)

SITE NAME	MAX 8-HR VALUE (PPM)	MAX AQI	AQI COLOR CODE
Central Phoenix	0.4	5	
Diablo	0.6	7	
Greenwood	0.3	3	
Phoenix Supersite	NOT AVBL	NOT AVBL	NOT AVBL
West Phoenix	0.3	3	

PM-10 (PARTICLES)

SITE NAME	MAX 24-HR VALUE (µg/m3)	MAX AQI	AQI COLOR CODE
Buckeye	40.3	37	
Central Phoenix	29.8	27	
Combs School (Pinal County)	39.1	36	
Durango	21.7	19	
Dysart	35.4	32	
Glendale	19.0	18	
Greenwood	33.0	31	
Higley	44.6	41	
Maricopa (Pinal County)	26.5	24	
Phoenix Supersite	26.5	24	
Mesa	16.3	15	
North Phoenix	16.5	15	
South Phoenix	28.2	26	
South Scottsdale	33.8	31	
Tempe	18.8	17	
West Chandler	21.4	19	
West Forty Third	35.0	32	
West Phoenix	21.3	19	
Zuni Hills	34.1	31	

PM-2.5 (PARTICLES)

SITE NAME	MAX 24-HR VALUE (µg/m3)	MAX AQI	AQI COLOR CODE
Diablo	5.0	21	
Durango	4.4	18	
Glendale	4.1	17	
Phoenix Supersite	4.7	20	
Mesa	4.3	18	
North Phoenix	3.6	15	
South Phoenix	5.9	25	
Tempe	4.8	20	
West Phoenix	4.5	19	

DESCRIPTION OF LOCAL AIR POLLUTANTS IN DETAIL



O3 (OZONE):

Description –

This is a secondary pollutant that is formed by the reaction of other primary pollutants (precursors) such as VOCs (volatile organic compounds) and NOx (Nitrogen Oxides) in the presence of sunlight.

Sources – VOCs are emitted from motor vehicles, chemical plants, refineries, factories, and other industrial sources. NOx is emitted from motor vehicles, power plants, and other sources of combustion.

Potential health impacts – Exposure to ozone can make people more susceptible to respiratory infection, result in lung inflammation, and aggravate pre-existing respiratory diseases such as asthma. Other effects include decrease in lung function, chest pain, and cough.

Unit of measurement – Parts per billion (ppb).

Averaging interval – Highest eight-hour period within a 24-hour period (midnight to midnight)

Reduction tips – Curtail daytime driving, refuel cars and use gasoline-powered equipment as late in the day as possible.

CO (CARBON MONOXIDE):

Description – A colorless, odorless, poisonous gas formed when carbon in fuels is not burned completely.

Sources – In cities, as much as 95 percent of all CO emissions emanate from automobile exhaust. Other sources include industrial processes, non-transportation fuel combustion, and natural sources such as wildfires. Peak concentrations occur in colder winter months.

Potential health impacts – Reduces oxygen delivery to the body's organs and tissues. The health threat is most serious for those who suffer from cardiovascular disease.

Unit of measurement – Parts per million (ppm).

Averaging interval – Highest eight-hour period within a 24-hour period (midnight to midnight)

Reduction tips – Keep motor vehicle tuned properly and minimize nighttime driving.

PM-10 & PM-2.5 (PARTICLES):

Description – The term “particulate matter” (PM) includes both solid particles and liquid droplets found in air. Many manmade and natural sources emit PM directly or emit other pollutants that react in the atmosphere to form PM. Particles less than 10 micrometers in diameter tend to pose the greatest health concern because they can be inhaled into and accumulate in the respiratory system. Particles less than 2.5 micrometers in diameter are referred to as “fine” particles and are responsible for many visibility degradations such as the “Valley Brown Cloud” (see <http://www.phoenixvis.net/>). Particles with diameters between 2.5 and 10 micrometers are referred to as “coarse”.

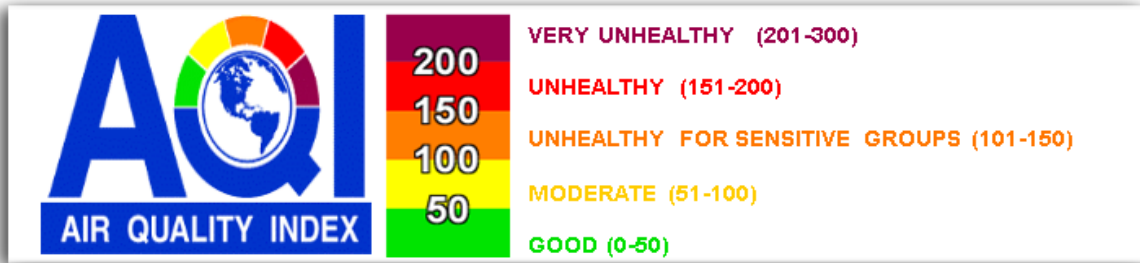
Sources – Fine = All types of combustion (motor vehicles, power plants, wood burning, etc.) and some industrial processes. Coarse = crushing or grinding operations and dust from paved or unpaved roads.

Potential health impacts – PM can increase susceptibility to respiratory infections and can aggravate existing respiratory diseases, such as asthma and chronic bronchitis.

Units of measurement – Micrograms per cubic meter (µg/m³)

Averaging interval – 24 hours (midnight to midnight).

Reduction tips – Stabilize loose soils, slow down on dirt roads, carpool, and use public transit.



AIR QUALITY FORECAST ISSUED Monday, April 25, 2016

This report is updated by 1:00 p.m. Sunday thru Friday and is valid for areas within and bordering Maricopa County in Arizona

FORECAST DATE NOTICES	YESTERDAY <u>Sun, 4/24/2016</u> Ozone Exceedance	TODAY <u>Mon, 4/25/2016</u>	TOMORROW <u>Tue, 4/26/2016</u>	EXTENDED <u>Wed, 4/27/2016</u>
AIR POLLUTANT	Highest AQI Reading/Site (*Preliminary data only*)			
O3	115 Rio Verde	44 Good	48 Good	58 Moderate
CO	6 Central Phoenix	7 Good	6 Good	6 Good
PM-10	29 West 43rd	72 Moderate	42 Good	44 Good
PM-2.5	29 South Phoenix	45 Good	31 Good	31 Good

O3 = Ozone CO = Carbon Monoxide PM-10 = Particles 10 microns & smaller PM-2.5 = Particles smaller than 2.5 microns
 "PM-10 or PM-2.5 Health Watch" (HW) means that the highest concentration of PM-10 or PM-2.5 may approach the federal health standard.
 "High Pollution Advisory" (HPA) means that the highest concentration of OZONE, PM-10, or PM-2.5 may exceed the federal health standard.

Health Statements	
Monday, 04/25/2016	Unusually sensitive people should consider reducing prolonged or heavy exertion outdoors.
Tuesday, 04/26/2016	No health impacts are expected.

SYNOPSIS AND DISCUSSION

Note: The Environmental Protection Agency has reduced the ozone health standard from 75 parts per billion (ppb) to 70 ppb. On January 1, 2016, the ADEQ Forecast Team began forecasting based off this new standard. For more information on the adjusted ozone standard click [here](#).

A dry cold front approaches from the west this morning. Gusts in the Valley have already hit between 20 and 30 mph before 8 AM at some sites. Coverage and strength of winds increase during the afternoon. Can't rule out 40+ mph gusts at times. This is a region wide event and the National Weather Service has issued Wind Advisory products for nearly all of Arizona. The winds will both benefit and hurt our air quality. On the positive, high dispersion rates won't allow the ozone plume to get established. Exceeding values that occurred yesterday likely drop into the Good AQI category today. The negative aspect concerns a blowing dust threat. The last windy period for Metro Phoenix was back on April 15. Upper Moderates for PM-10 were observed. No rain has occurred since that date and projected winds are similar in nature, so pockets of blowing dust should be expected. Winds begin to calm down later in the evening, but get on the breezy side again Tuesday afternoon. Thursday is when the next storm gets here and there might be enough moisture and instability for a few showers and t-storms.

Check back tomorrow for more. Until then, have a good day! –J.Malloy

USEFUL LINKS	
INTERACTIVE MAPS	http://alert.fcd.maricopa.gov/alert/Google/v3/air.html http://www.airnow.gov/
WEB CAMERA IMAGES	http://www.phoenixvis.net/

POLLUTION MONITOR READINGS FOR Sunday, April 24, 2016

O3 (OZONE)

SITE NAME	MAX 8-HR VALUE (PPB)	MAX AQI	AQI COLOR CODE
Alamo Lake	66	87	
Apache Junction	67	90	
Blue Point	70	100	
Buckeye	50	46	
Casa Grande	63	77	
Cave Creek	73	108	
Central Phoenix	64	80	
Dysart	58	61	
Falcon Field	68	93	
Fountain Hills	66	87	
Glendale	64	80	
Humboldt Mountain	66	87	
Phoenix Supersite	70	100	
Mesa	68	93	
North Phoenix	68	93	
Pinal Air Park	66	87	
Pinnacle Peak	67	90	

Queen Valley	71	101	
Rio Verde	75	115	
South Phoenix	62	74	
South Scottsdale	64	80	
Tempe	64	80	
Tonto Nat'l Mon.	67	90	
West Chandler	66	87	
West Phoenix	62	74	
Yuma	62	74	

CO (CARBON MONOXIDE)

SITE NAME	MAX 8-HR VALUE (PPM)	MAX AQI	AQI COLOR CODE
Central Phoenix	0.5	6	
Diablo	0.5	6	
Greenwood	0.4	5	
Phoenix Supersite	NOT AVBL	NOT AVBL	
West Phoenix	0.4	5	

PM-10 (PARTICLES)

SITE NAME	MAX 24-HR VALUE (µg/m3)	MAX AQI	AQI COLOR CODE
Buckeye	31.6	29	
Central Phoenix	23.5	21	
Combs School (Pinal County)	31.5	29	
Durango	20	19	
Dysart	17.4	16	
Glendale	12.6	11	
Greenwood	26	24	
Higley	NOT AVBL	NOT AVBL	
Maricopa (Pinal County)	39.8	36	
Phoenix Supersite	20	19	
Mesa	15	14	
North Phoenix	12	11	
South Phoenix	24.9	22	
South Scottsdale	21.8	19	
Tempe	15.2	14	
West Chandler	20.7	19	
West Forty Third	31.2	29	
West Phoenix	18.3	17	
Zuni Hills	18.2	17	

PM-2.5 (PARTICLES)

SITE NAME	MAX 24-HR VALUE (µg/m3)	MAX AQI	AQI COLOR CODE
Diablo	5	21	
Durango	5.9	25	
Glendale	2.9	12	
Phoenix Supersite	5.2	22	
Mesa	4.2	18	
North Phoenix	3	13	
South Phoenix	6.9	29	
Tempe	4.4	18	
West Phoenix	4.4	18	

DESCRIPTION OF LOCAL AIR POLLUTANTS IN DETAIL



O3 (OZONE):

Description –

This is a secondary pollutant that is formed by the reaction of other primary pollutants (precursors) such as VOCs (volatile organic compounds) and NOx (Nitrogen Oxides) in the presence of sunlight.

Sources – VOCs are emitted from motor vehicles, chemical plants, refineries, factories, and other industrial sources. NOx is emitted from motor vehicles, power plants, and other sources of combustion.

Potential health impacts – Exposure to ozone can make people more susceptible to respiratory infection, result in lung inflammation, and aggravate pre-existing respiratory diseases such as asthma. Other effects include decrease in lung function, chest pain, and cough.

Unit of measurement – Parts per billion (ppb).

Averaging interval – Highest eight-hour period within a 24-hour period (midnight to midnight)

Reduction tips – Curtail daytime driving, refuel cars and use gasoline-powered equipment as late in the day as possible.

CO (CARBON MONOXIDE):

Description – A colorless, odorless, poisonous gas formed when carbon in fuels is not burned completely.

Sources – In cities, as much as 95 percent of all CO emissions emanate from automobile exhaust. Other sources include industrial processes, non-transportation fuel combustion, and natural sources such as wildfires. Peak concentrations occur in colder winter months.

Potential health impacts – Reduces oxygen delivery to the body's organs and tissues. The health threat is most serious for those who suffer from cardiovascular disease.

Unit of measurement – Parts per million (ppm).

Averaging interval – Highest eight-hour period within a 24-hour period (midnight to midnight)

Reduction tips – Keep motor vehicle tuned properly and minimize nighttime driving.

PM-10 & PM-2.5 (PARTICLES):

Description – The term “particulate matter” (PM) includes both solid particles and liquid droplets found in air. Many manmade and natural sources emit PM directly or emit other pollutants that react in the atmosphere to form PM. Particles less than 10 micrometers in diameter tend to pose the greatest health concern because they can be inhaled into and accumulate in the respiratory system. Particles less than 2.5 micrometers in diameter are referred to as “fine” particles and are responsible for many visibility degradations such as the “Valley Brown Cloud” (see <http://www.phoenixvis.net/>). Particles with diameters between 2.5 and 10 micrometers are referred to as “coarse”.

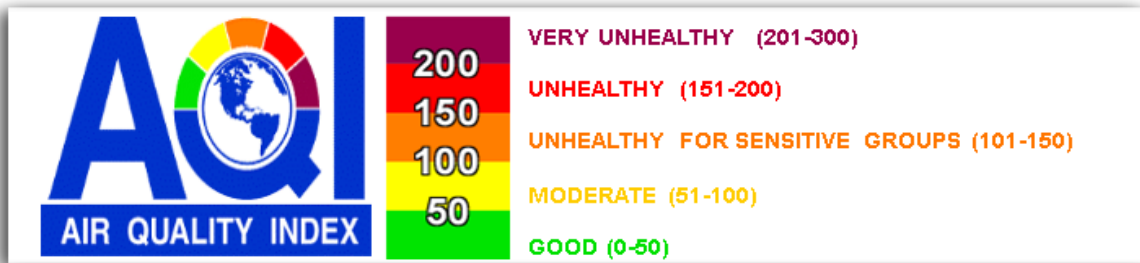
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Potential health impacts – PM can increase susceptibility to respiratory infections and can aggravate existing respiratory diseases, such as asthma and chronic bronchitis.

Units of measurement – Micrograms per cubic meter (µg/m³)

Averaging interval – 24 hours (midnight to midnight).

Reduction tips – Stabilize loose soils, slow down on dirt roads, carpool, and use public transit.



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AIR POLLUTANT	Highest AQI Reading/Site (*Preliminary data only*)			
O3	80 Cave Creek	57 <i>Moderate</i>	67 <i>Moderate</i>	74 <i>Moderate</i>
CO	5 Diablo	6 <i>Good</i>	6 <i>Good</i>	5 <i>Good</i>
PM-10	111 West 43rd	42 <i>Good</i>	46 <i>Good</i>	51 <i>Moderate</i>
PM-2.5	50 Phoenix Supersite	31 <i>Good</i>	31 <i>Good</i>	34 <i>Good</i>

O3 = Ozone CO = Carbon Monoxide PM-10 = Particles 10 microns & smaller PM-2.5 = Particles smaller than 2.5 microns
 "PM-10 or PM-2.5 Health Watch" (HW) means that the highest concentration of PM-10 or PM-2.5 may approach the federal health standard.
 "High Pollution Advisory" (HPA) means that the highest concentration of OZONE, PM-10, or PM-2.5 may exceed the federal health standard.

Health Statements	
Tuesday, 04/26/2016	Unusually sensitive people should consider reducing prolonged or heavy exertion outdoors.
Wednesday, 04/27/2016	Unusually sensitive people should consider reducing prolonged or heavy exertion outdoors.

SYNOPSIS AND DISCUSSION

Note: The Environmental Protection Agency has reduced the ozone health standard from 75 parts per billion (ppb) to 70 ppb. On January 1, 2016, the ADEQ Forecast Team began forecasting based off this new standard. For more information on the adjusted ozone standard click [here](#).

The cold frontal passage occurred a bit earlier than expected yesterday with winds picking up speed late morning rather than the mid to late afternoon. Because of this, PM-10 activity started a bit earlier as well. Strong winds associated with the front resulted in Valley wide hazy conditions that forced an exceedance at the West 43rd monitor while other monitors finished the day in the mid-Moderates.

As you may have noticed this morning, it's still a bit hazy here in the Valley since PM-10 levels are still slightly elevated. However, they should be on a decreasing trend as the day progresses. Moving forward, we'll be under this trough passage pattern for the remainder of this week. These upper-level disturbances will continue to bring breezy winds in the Valley with a chance for small amounts of scattered precipitation this weekend. As for ozone, expect AQI to continue on in the Moderates.

Check back tomorrow for more. Until then, have a good day! –P.Patel

USEFUL LINKS	
INTERACTIVE MAPS	http://alert.fcd.maricopa.gov/alert/Google/v3/air.html http://www.airnow.gov/
WEB CAMERA IMAGES	http://www.phoenixvis.net/

POLLUTION MONITOR READINGS FOR Monday, April 25, 2016

O3 (OZONE)

SITE NAME	MAX 8-HR VALUE (PPB)	MAX AQI	AQI COLOR CODE
Alamo Lake	60	67	
Apache Junction	59	64	
Blue Point	61	71	
Buckeye	47	44	
Casa Grande	58	61	
Cave Creek	64	80	
Central Phoenix	58	61	
Dysart	52	48	
Falcon Field	60	67	
Fountain Hills	56	54	
Glendale	58	61	
Humboldt Mountain	57	58	
Phoenix Supersite	64	80	
Mesa	62	74	
North Phoenix	61	71	
Pinal Air Park	60	67	

Pinnacle Peak	57	58	
Queen Valley	62	74	
Rio Verde	64	80	
South Phoenix	58	61	
South Scottsdale	56	54	
Tempe	56	54	
Tonto Nat'l Mon.	59	64	
West Chandler	57	58	
West Phoenix	56	54	
Yuma	58	61	

CO (CARBON MONOXIDE)

SITE NAME	MAX 8-HR VALUE (PPM)	MAX AQI	AQI COLOR CODE
Central Phoenix	0.3	3	
Diablo	0.4	5	
Greenwood	0.2	2	
Phoenix Supersite	NOT AVBL	NOT AVBL	
West Phoenix	0.2	2	

PM-10 (PARTICLES)

SITE NAME	MAX 24-HR VALUE (µg/m3)	MAX AQI	AQI COLOR CODE
Buckeye	106.2	76	
Central Phoenix	95.6	71	
Combs School (Pinal County)	103.1	75	
Durango	73.7	60	
Dysart	97.1	72	
Glendale	64.9	55	
Greenwood	106.1	76	
Higley	NOT AVBL	NOT AVBL	
Maricopa (Pinal County)	154.8	100	
Phoenix Supersite	85.1	66	
Mesa	44.6	41	
North Phoenix	50.7	46	
South Phoenix	70.5	58	
South Scottsdale	66.6	56	
Tempe	40.7	37	
West Chandler	77.2	62	
West Forty Third	175	111	
West Phoenix	71.6	59	
Zuni Hills	110.1	78	

PM-2.5 (PARTICLES)

SITE NAME	MAX 24-HR VALUE (µg/m3)	MAX AQI	AQI COLOR CODE
Diablo	8.7	36	
Durango	9.3	39	
Glendale	10.4	43	
Phoenix Supersite	11.9	50	
Mesa	7.9	33	
North Phoenix	8.2	34	
South Phoenix	9.4	39	
Tempe	7.1	30	
West Phoenix	9.2	38	

DESCRIPTION OF LOCAL AIR POLLUTANTS IN DETAIL



O3 (OZONE):

Description –

This is a secondary pollutant that is formed by the reaction of other primary pollutants (precursors) such as VOCs (volatile organic compounds) and NOx (Nitrogen Oxides) in the presence of sunlight.

Sources – VOCs are emitted from motor vehicles, chemical plants, refineries, factories, and other industrial sources. NOx is emitted from motor vehicles, power plants, and other sources of combustion.

Potential health impacts – Exposure to ozone can make people more susceptible to respiratory infection, result in lung inflammation, and aggravate pre-existing respiratory diseases such as asthma. Other effects include decrease in lung function, chest pain, and cough.

Unit of measurement – Parts per billion (ppb).

Averaging interval – Highest eight-hour period within a 24-hour period (midnight to midnight)

Reduction tips – Curtail daytime driving, refuel cars and use gasoline-powered equipment as late in the day as possible.

CO (CARBON MONOXIDE):

Description – A colorless, odorless, poisonous gas formed when carbon in fuels is not burned completely.

Sources – In cities, as much as 95 percent of all CO emissions emanate from automobile exhaust. Other sources include industrial processes, non-transportation fuel combustion, and natural sources such as wildfires. Peak concentrations occur in colder winter months.

Potential health impacts – Reduces oxygen delivery to the body's organs and tissues. The health threat is most serious for those who suffer from cardiovascular disease.

Unit of measurement – Parts per million (ppm).

Averaging interval – Highest eight-hour period within a 24-hour period (midnight to midnight)

Reduction tips – Keep motor vehicle tuned properly and minimize nighttime driving.

PM-10 & PM-2.5 (PARTICLES):

Description – The term “particulate matter” (PM) includes both solid particles and liquid droplets found in air. Many manmade and natural sources emit PM directly or emit other pollutants that react in the atmosphere to form PM. Particles less than 10 micrometers in diameter tend to pose the greatest health concern because they can be inhaled into and accumulate in the respiratory system. Particles less than 2.5 micrometers in diameter are referred to as “fine” particles and are responsible for many visibility degradations such as the “Valley Brown Cloud” (see <http://www.phoenixvis.net/>). Particles with diameters between 2.5 and 10 micrometers are referred to as “coarse”.

Sources – Fine = All types of combustion (motor vehicles, power plants, wood burning, etc.) and some industrial processes. Coarse = crushing or grinding operations and dust from paved or unpaved roads.

Potential health impacts – PM can increase susceptibility to respiratory infections and can aggravate existing respiratory diseases, such as asthma and chronic bronchitis.

Units of measurement – Micrograms per cubic meter (µg/m³)

Averaging interval – 24 hours (midnight to midnight).

Reduction tips – Stabilize loose soils, slow down on dirt roads, carpool, and use public transit.

APPENDIX B

NWS METEOROLOGICAL OBSERVATIONS

U.S. Department of Commerce
National Oceanic & Atmospheric Administration

QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801

(final) HOURLY OBSERVATIONS TABLE BUCKEYE MUNICIPAL AIRPORT (00226) BUCKEYE, AZ (04/2016)

Elevation: 1021 ft. above sea level

Latitude: 33.417

Longitude: -112.683

Data Version: VER2

Date	Time (LST)	Station Type	Sky Conditions	Visibility (SM)	Weather Type	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Humd %	Wind Speed (MPH)	Wind Dir	Wind Gusts (MPH)	Station Pressure (in. hg)	Press Tend	Net 3-hr Chg (mb)	Sea Level Pressure (in. hg)	Report Type	Precip. Total (in)	Alti-meter (in. hg)
						(F)	(C)	(F)	(C)	(F)	(C)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
25	0015	0	CLR	10.00		72	22.0	52	10.9	30	-1.0	21	11	200		28.68			M	AA		29.76
25	0035	0	CLR	10.00		68	20.0	51	10.3	32	0.0	26	11	200		28.68			M	AA		29.76
25	0055	0	FEW120	10.00		66	19.0	51	10.6	36	2.0	33	10	200		28.67			M	AA		29.75
25	0115	0	FEW050 SCT120	10.00		66	19.0	51	10.6	36	2.0	33	9	210		28.67			M	AA		29.75
25	0135	0	OVC120	10.00		66	19.0	52	11.2	39	4.0	37	M	M		28.66			M	AA		29.74
25	0155	0	BKN120	10.00		66	19.0	53	11.6	41	5.0	40	8	210		28.66			M	AA		29.74
25	0215	0	BKN120	10.00		68	20.0	56	13.0	45	7.0	44	7	210		28.66			M	AA		29.74
25	0235	0	BKN120	10.00		68	20.0	56	13.3	46	8.0	45	7	210		28.66			M	AA		29.74
25	0255	0	BKN120	10.00		66	19.0	55	12.8	46	8.0	49	0	000		28.66			M	AA		29.74
25	0315	0	BKN120	10.00		66	19.0	54	12.1	43	6.0	43	0	000		28.66			M	AA		29.74
25	0335	0	BKN120	10.00		66	19.0	55	12.6	45	7.0	47	8	230		28.66			M	AA		29.74
25	0355	0	BKN120	10.00		66	19.0	54	12.1	43	6.0	43	9	230		28.66			M	AA		29.74
25	0415	0	OVC120	10.00		66	19.0	54	12.1	43	6.0	43	10	230	16	28.66			M	AA		29.74
25	0435	0	BKN120	10.00		66	19.0	52	11.2	39	4.0	37	13	230		28.66			M	AA		29.74
25	0455	0	SCT120	10.00		66	19.0	51	10.6	36	2.0	33	13	220	17	28.66			M	AA		29.74
25	0515	0	BKN120	10.00		64	18.0	49	9.7	34	1.0	33	10	230		28.66			M	AA		29.74
25	0535	0	BKN120	10.00		64	18.0	49	9.7	34	1.0	33	14	230	17	28.66			M	AA		29.74
25	0555	0	CLR	10.00		63	17.0	49	9.4	34	1.0	34	10	230		28.67			M	AA		29.75
25	0615	0	CLR	10.00		63	17.0	48	9.0	32	0.0	31	14	230		28.68			M	AA		29.76
25	0635	0	CLR	10.00		63	17.0	49	9.4	34	1.0	34	11	240		28.69			M	AA		29.77
25	0655	0	CLR	10.00		63	17.0	49	9.4	34	1.0	34	11	230	20	28.69			M	AA		29.77
25	0715	0	CLR	10.00		64	18.0	50	10.1	36	2.0	36	15	220	22	28.70			M	AA		29.78
25	0735	0	CLR	10.00		66	19.0	51	10.6	36	2.0	33	16	220	22	28.71			M	AA		29.79
25	0755	0	CLR	10.00		66	19.0	50	10.2	34	1.0	31	17	220	22	28.71			M	AA		29.80
25	0815	0	CLR	10.00		68	20.0	51	10.6	34	1.0	29	14	210	20	28.71			M	AA		29.80
25	0835	0	CLR	9.00		68	20.0	51	10.3	32	0.0	26	18	230	24	28.71			M	AA		29.80
25	0855	0	CLR	10.00		68	20.0	51	10.3	32	0.0	26	16	220	24	28.73			M	AA		29.81
25	0915	0	CLR	10.00		70	21.0	51	10.8	32	0.0	25	16	240	23	28.71			M	AA		29.80
25	0935	0	CLR	10.00		70	21.0	51	10.8	32	0.0	25	15	230	21	28.71			M	AA		29.80
25	0955	0	CLR	10.00		72	22.0	52	11.2	32	0.0	23	16	220	24	28.71			M	AA		29.80
25	1015	0	CLR	10.00		72	22.0	52	11.2	32	0.0	23	16	220	23	28.71			M	AA		29.80
25	1035	0	CLR	10.00		72	22.0	51	10.6	28	-2.0	19	14	240	26	28.71			M	AA		29.79
25	1055	0	CLR	10.00		73	23.0	52	10.8	28	-2.0	19	21	200	25	28.70			M	AA		29.78
25	1115	0	CLR	10.00		73	23.0	52	10.8	28	-2.0	19	20	220	34	28.70			M	AA		29.78
25	1135	0	CLR	5.00		77	25.0	50	10.2	16	-9.0	10	24	240	30	28.68			M	AA		29.76
25	1155	0	CLR	9.00		77	25.0	50	9.8	12	-11.0	8	16	220	31	28.68			M	AA		29.76
25	1215	0	CLR	8.00		77	25.0	50	10.0	14	-10.0	9	25	230	38	28.67			M	AA		29.75
25	1235	0	CLR	8.00		77	25.0	50	9.8	12	-11.0	8	23	220	36	28.66			M	AA		29.74
25	1255	0	CLR	9.00		77	25.0	50	10.0	14	-10.0	9	29	230	36	28.66			M	AA		29.74
25	1315	0	CLR	7.00		77	25.0	49	9.6	10	-12.0	8	24	240	38	28.65			M	AA		29.73
25	1335	0	CLR	10.00		77	25.0	49	9.6	10	-12.0	8	25	250	34	28.64			M	AA		29.72
25	1355	0	CLR	7.00		77	25.0	50	10.0	14	-10.0	9	26	230	38	28.64			M	AA		29.72
25	1415	0	CLR	7.00		77	25.0	50	10.0	14	-10.0	9	22	250	34	28.64			M	AA		29.72
25	1435	0	CLR	10.00		77	25.0	50	10.0	14	-10.0	9	23	260	34	28.64			M	AA		29.72
25	1455	0	CLR	10.00		77	25.0	50	10.2	16	-9.0	10	22	240	34	28.64			M	AA		29.72
25	1515	0	CLR	10.00		77	25.0	50	10.2	16	-9.0	10	23	260	34	28.63			M	AA		29.71
25	1535	0	CLR	10.00		77	25.0	50	10.2	16	-9.0	10	22	230	32	28.63			M	AA		29.71
25	1555	0	CLR	7.00		77	25.0	51	10.4	18	-8.0	11	29	230	37	28.62			M	AA		29.70
25	1615	0	CLR	8.00		75	24.0	50	9.7	16	-9.0	11	20	240	32	28.62			M	AA		29.70
25	1635	0	CLR	10.00		75	24.0	50	9.7	16	-9.0	11	21	230	33	28.62			M	AA		29.70
25	1655	0	CLR	10.00		75	24.0	50	9.7	16	-9.0	11	24	240	30	28.63			M	AA		29.71
25	1715	0	CLR	10.00		75	24.0	50	9.7	16	-9.0	11	17	230	28	28.62			M	AA		29.70
25	1735	0	CLR	10.00		75	24.0	50	9.7	16	-9.0	11	25	230	31	28.62			M	AA		29.70
25	1755	0	CLR	9.00		73	23.0	49	9.2	16	-9.0	11	18	230	26	28.62			M	AA		29.70
25	1815	0	CLR	10.00		73	23.0	49	9.2	16	-9.0	11	22	220	28	28.62			M	AA		29.70
25	1835	0	CLR	10.00		73	23.0	49	9.2	16	-9.0	11	18	230	30	28.62			M	AA		29.70
25	1855	0	CLR	10.00		72	22.0	48	8.9	16	-9.0	12	17	240	25	28.63			M	AA		29.71
25	1915	0	CLR	10.00		72	22.0	48	8.9	16	-9.0	12	17	230	25	28.63			M	AA		29.71
25	1935	0	CLR	10.00		72	22.0	48	8.9	16	-9.0	12	17	230	23	28.63			M	AA		29.71
25	1955	0	FEW043	10.00		70	21.0	47	8.4	16	-9.0	13	13	240		28.63			M	AA		29.71
25	2015	0	FEW050 SCT060	10.00		70	21.0	46	8.0	12	-11.0	10	11	240	17	28.64			M	AA		29.72
25	2035	0	FEW046 BKN060	10.00		68	20.0	46	7.7	14	-10.0	12	13	270		28.64			M	AA		29.72
25	2055	0	FEW055	10.00		68	20.0	47	8.3	19	-7.0	15	16	280	24	28.64			M	AA		29.72
25	2115	0	FEW120	10.00		68	20.0	46	7.9	16	-9.0	13	17	270	23	28.65						

Dynamically generated Tue Aug 30 12:44:05 EDT 2016 via <http://www.ncdc.noaa.gov/qclcd/QCLCD>

U.S. Department of Commerce
National Oceanic & Atmospheric Administration

**QUALITY CONTROLLED LOCAL
CLIMATOLOGICAL DATA**

(final)

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801

**HOURLY OBSERVATIONS TABLE
CASA GRANDE MUNICIPAL ARPT (03914)
CASA GRANDE, AZ
(04/2016)**

Elevation: 1462 ft. above sea level

Latitude: 32.95

Longitude: -111.766

Data Version: VER2

Date	Time (LST)	Station Type	Sky Conditions	Visibility (SM)	Weather Type	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Humd %	Wind Speed (MPH)	Wind Dir	Wind Gusts (MPH)	Station Pressure (in. hg)	Press Tend	Net 3-hr Chg (mb)	Sea Level Pressure (in. hg)	Report Type	Precip. Total (in)	Alti-meter (in. hg)
						(F)	(C)	(F)	(C)	(F)	(C)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
25	0015	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0035	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0055	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0115	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0135	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0155	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0215	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0235	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0255	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0315	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0335	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0355	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0415	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0435	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0455	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0515	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0535	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0555	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0615	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0635	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0655	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0715	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0735	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0755	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0815	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0835	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0855	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0915	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0935	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	0955	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	1015	0	FEW070	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	1035	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	1055	0	CLR	10.00		M	M	M	M	M	M	M		M		M		M		AA		M
25	1115	0	CLR	10.00		75	24.0	52	11.0	27	-3.0	17	20	250	29	28.25		M		AA		29.80
25	1135	0	CLR	10.00		77	25.0	53	11.5	27	-3.0	16	21	250	28	28.25		M		AA		29.79
25	1155	0	CLR	10.00		79	26.0	54	12.0	27	-3.0	15	20	240	30	28.24		M		AA		29.78
25	1215	0	CLR	10.00		79	26.0	53	11.7	25	-4.0	14	18	230	36	28.24		M		AA		29.78
25	1235	0	CLR	10.00		81	27.0	53	11.6	21	-6.0	11	26	250	34	28.23		M		AA		29.77
25	1255	0	CLR	10.00		79	26.0	53	11.4	23	-5.0	12	21	240	30	28.22		M		AA		29.76
25	1315	0	CLR	10.00		79	26.0	53	11.4	23	-5.0	12	26	240	33	28.21		M		AA		29.75
25	1335	0	CLR	10.00		79	26.0	52	11.1	21	-6.0	11	24	250	31	28.21		M		AA		29.75
25	1355	0	CLR	10.00		81	27.0	53	11.6	21	-6.0	11	24	250	32	28.20		M		AA		29.74
25	1415	0	CLR	10.00		81	27.0	53	11.6	21	-6.0	11	20	240	34	28.19		M		AA		29.73
25	1435	0	CLR	7.00		M	M	M	M	M	M	M	23	260	33	28.18		M		AA		29.72
25	1455	0	CLR	9.00		M	M	M	M	M	M	M	29	250	33	28.18		M		AA		29.72
25	1515	0	CLR	10.00		81	27.0	53	11.6	21	-6.0	11	21	250	33	28.18		M		AA		29.72
25	1535	0	CLR	10.00		81	27.0	53	11.4	19	-7.0	10	23	270	33	28.18		M		AA		29.72
25	1555	0	CLR	10.00		M	M	M	M	M	M	M	26	250	33	28.17		M		AA		29.71
25	1615	0	CLR	10.00		81	27.0	53	11.6	21	-6.0	11	25	250	33	28.17		M		AA		29.71
25	1635	0	CLR	10.00		81	27.0	53	11.4	19	-7.0	10	23	250	33	28.17		M		AA		29.71
25	1655	0	CLR	10.00		79	26.0	52	10.9	19	-7.0	10	21	260	31	28.17		M		AA		29.71
25	1715	0	CLR	10.00		79	26.0	51	10.8	18	-8.0	10	21	270	31	28.17		M		AA		29.71
25	1735	0	CLR	10.00		77	25.0	51	10.3	18	-8.0	11	21	270	28	28.17		M		AA		29.71
25	1755	0	CLR	10.00		75	24.0	50	9.8	18	-8.0	11	22	260	29	28.17		M		AA		29.71
25	1815	0	CLR	10.00		75	24.0	49	9.6	16	-9.0	11	20	260	29	28.17		M		AA		29.71
25	1835	0	CLR	10.00		73	23.0	48	9.1	16	-9.0	11	17	270	21	28.17		M		AA		29.71
25	1855	0	CLR	10.00		73	23.0	48	8.9	14	-10.0	10	17	270		28.17		M		AA		29.71
25	1915	0	CLR	10.00		72	22.0	48	8.6	14	-10.0	11	13	280		28.18		M		AA		29.72
25	1935	0	CLR	10.00		70	21.0	46	7.9	12	-11.0	10	6	290		28.19		M		AA		29.73
25	1955	0	CLR	10.00		70	21.0	47	8.1	14	-10.0	11	9	290		28.19		M		AA		29.73
25	2015	0	CLR	10.00		70	21.0	47	8.1	14	-10.0	11	9	300		28.19		M		AA		29.73
25	2035	0	CLR	10.00		70	21.0	47	8.3	16	-9.0	13	7	310		28.20		M		AA		29.74
25	2055	0	CLR	10.00		68	20.0	46	7.8	16	-9.0	13	8	300		28.20		M		AA		29.74
25	2115	0	CLR	10.00		68	20.0	46	7.8	16	-9.0	13	8	290		28.21		M		AA		29.75
25	2135	0	CLR	10.00		66	19.0	45	7.3	16	-9.0	14	6	270		28.22		M		AA		29.76
25	2155	0	CLR	10.00		66	19.0	46	7.5	18	-8.0	16	10	280	18	28.22		M		AA		29.76
25	2215	0	CLR	10.00		64	18.0	45	7.1	19	-7.0	18	5	280		28.22		M		AA		29.76
25	2235	0	CLR	10.00		64	18.0	45	7.1	19	-7.0	18	11	270	16	28.23		M		AA		29.77
25	2255	0	CLR	10.00		64	18.0	45	7.0	18	-8.0	17	8	240	16	28.24		M		AA		29.78
25	2315	0	SCT100	10.00		64	18.0	44	6.8	16	-9.0	15	14	250	17	28.23		M		AA		29.77
25	2335	0	BKN100	10.00		63	17.0	44	6.5	16	-9.0	16	13	250		28.24		M		AA		29.78
25	2355	0	BKN090	10.00		63	17.0	44	6.9	19	-7.0	18	14	260		28.24		M		AA		29.78

Dynamically generated Tue Aug 30 12:46:18 EDT 2016 via <http://www.ncdc.noaa.gov/qclcd/QCLCD>

U.S. Department of Commerce
National Oceanic & Atmospheric Administration

QUALITY CONTROLLED LOCAL
CLIMATOLOGICAL DATA
(final)
HOURLY OBSERVATIONS TABLE
CHANDLER MUNICIPAL AIRPORT (53128)
CHANDLER, AZ
(04/2016)

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801

Elevation: 1243 ft. above sea level
Latitude: 33.268
Longitude: -111.812
Data Version: VER2

Date	Time (LST)	Station Type	Sky Conditions	Visibility (SM)	Weather Type	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Humd %	Wind Speed (MPH)	Wind Dir	Wind Gusts (MPH)	Station Pressure (in. hg)	Press Tend	Net 3-hr Chg (mb)	Sea Level Pressure (in. hg)	Report Type	Precip. Total (in)	Alti- meter (in. hg)
						(F)	(C)	(F)	(C)	(F)	(C)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
25	0547	0	CLRs	15.00		66	19.0	54	12.1	43	6.0	43	14	170		28.43			M	AA		29.75
25	0647	0	CLRs	10.00		68	20.0	55	12.5	43	6.0	41	17	180		28.44			M	AA		29.76
25	0747	0	BKN250	35.00		70	21.0	55	12.5	41	5.0	35	17	220		28.47			M	AA		29.79
25	0847	0	CLRs	10.00		73	23.0	58	14.1	45	7.0	37	16	220		28.48			M	AA		29.80
25	0947	0	FEW030 SCT150	15.00		73	23.0	54	12.4	37	3.0	27	23	200	36	28.48			M	AA		29.80
25	1047	0	FEW080	15.00		75	24.0	49	9.4	14	-10.0	10	21	220	34	28.47			M	AA		29.79
25	1147	0	FEW100	15.00		77	25.0	51	10.4	18	-8.0	11	22	240	32	28.46			M	AA		29.78
25	1347	0	FEW100	10.00		79	26.0	50	10.0	9	-13.0	7	54	220	76	28.40			M	AA		29.72
25	1447	0	CLRs	10.00	BLDU	79	26.0	50	9.7	5	-15.0	6	32s	220	40	28.40			M	AA		29.71
25	1547	0	CLRs	7.00	BLDU	79	26.0	49	9.5	1	-17.0	5				28.38			M	AA		29.69
25	1647	0	CLRs	10.00		79	26.0	49	9.5	1	-17.0	5				28.39			M	AA		29.70
25	1747	0	CLRs	15.00		77	25.0	49	9.2	5	-15.0	6	23	230	34	28.39			M	AA		29.70
25	1847	0	CLRs	20.00		73	23.0	47	8.5	9	-13.0	8	23	230	34	28.39			M	AA		29.70
25	1947	0	CLRs	15.00		72	22.0	47	8.3	10	-12.0	9	16	240	23	28.40			M	AA		29.71
25	2047	0	CLRs	15.00		70	21.0	46	7.8	10	-12.0	10	10	240	18	28.40			M	AA		29.72

Dynamically generated Tue Aug 30 12:48:12 EDT 2016 via <http://www.ncdc.noaa.gov/qclcd/QCLCD>

U.S. Department of Commerce
National Oceanic & Atmospheric Administration

**QUALITY CONTROLLED LOCAL
CLIMATOLOGICAL DATA**

(final)

**HOURLY OBSERVATIONS TABLE
PHOENIX DEER VALLEY ARPT (03184)
PHOENIX, AZ
(04/2016)**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801

Elevation: 1455 ft. above sea level

Latitude: 33.688

Longitude: -112.081

Data Version: VER2

Date	Time (LST)	Station Type	Sky Conditions	Visibility (SM)	Weather Type	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Humd %	Wind Speed (MPH)	Wind Dir	Wind Gusts (MPH)	Station Pressure (in. hg)	Press Tend	Net 3-hr Chg (mb)	Sea Level Pressure (in. hg)	Report Type	Precip. Total (in)	Alti- meter (in. hg)
						(F)	(C)	(F)	(C)	(F)	(C)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
25	0053	12	CLR	10.00		71	21.7	51	10.2	28	-2.2	20	6	220		28.20			29.69	AA		29.75
25	0153	12	CLR	10.00		71	21.7	51	10.7	31	-0.6	23	10	230		28.18			29.68	AA		29.74
25	0253	12	CLR	10.00		70	21.1	53	11.7	37	2.8	30	13	220		28.17			29.66	AA		29.73
25	0353	12	CLR	10.00		69	20.6	53	11.8	39	3.9	34	10	230		28.17			29.66	AA		29.73
25	0453	12	CLR	10.00		68	20.0	54	12.1	41	5.0	38	11	220		28.17			29.66	AA		29.73
25	0553	12	CLR	10.00		66	18.9	53	11.8	42	5.6	42	8	210		28.17			29.67	AA		29.73
25	0653	12	CLR	10.00		67	19.4	53	11.8	41	5.0	39	15	210		28.20			29.68	AA		29.75
25	0753	12	CLR	10.00		67	19.4	50	9.8	31	-0.6	26	23	220	29	28.21			29.71	AA		29.77
25	0853	12	CLR	10.00		69	20.6	51	10.3	31	-0.6	24	17	210	26	28.22			29.72	AA		29.78
25	0953	12	CLR	10.00		71	21.7	51	10.4	29	-1.7	21	18	240		28.21			29.71	AA		29.77
25	1053	12	CLR	10.00		73	22.8	51	10.6	27	-2.8	18	20	220	30	28.20			29.70	AA		29.76
25	1153	12	CLR	10.00		74	23.3	52	10.8	27	-2.8	17	20	250	32	28.20			29.68	AA		29.75
25	1253	12	CLR	10.00		77	25.0	52	10.9	23	-5.0	13	20	230	31	28.16			29.65	AA		29.71
25	1353	12	FEW036	10.00		78	25.6	50	9.9	12	-11.1	8	25	240	44	28.14			29.63	AA		29.69
25	1453	12	FEW039	10.00		78	25.6	50	10.1	14	-10.0	9	28	220	40	28.13			29.62	AA		29.68
25	1553	12	SCT037	10.00		77	25.0	50	9.8	13	-10.6	9	30	230	41	28.12			29.61	AA		29.67
25	1653	12	CLR	10.00		75	23.9	49	9.5	15	-9.4	10	29	230	38	28.13			29.62	AA		29.68
25	1753	12	CLR	10.00		73	22.8	49	9.2	17	-8.3	12	24	230	36	28.13			29.63	AA		29.68
25	1853	12	BKN047	10.00		71	21.7	48	8.6	16	-8.9	12	20	220		28.14			29.64	AA		29.69
25	1953	12	CLR	10.00		69	20.6	47	8.2	17	-8.3	14	15	220		28.15			29.65	AA		29.70
25	2053	12	CLR	10.00		68	20.0	47	8.0	18	-7.8	15	13	240		28.16			29.66	AA		29.71
25	2153	12	CLR	10.00		66	18.9	45	7.4	17	-8.3	15	7	240		28.16			29.66	AA		29.71
25	2253	12	BKN110	10.00		66	18.9	46	7.5	18	-7.8	16	14	230		28.17			29.67	AA		29.72
25	2353	12	FEW095 SCT120	10.00		65	18.3	47	8.1	24	-4.4	21	14	270		28.17			29.68	AA		29.73

Dynamically generated Tue Aug 30 12:52:58 EDT 2016 via <http://www.ncdc.noaa.gov/qclcd/QCLCD>

U.S. Department of Commerce
National Oceanic & Atmospheric Administration

**QUALITY CONTROLLED LOCAL
CLIMATOLOGICAL DATA**

(final)

**HOURLY OBSERVATIONS TABLE
FALCON FIELD AIRPORT (03185)**

MESA, AZ

(04/2016)

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801

Elevation: 1380 ft. above sea level

Latitude: 33.466

Longitude: -111.733

Data Version: VER2

Date	Time (LST)	Station Type	Sky Conditions	Visibility (SM)	Weather Type	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Humd %	Wind Speed (MPH)	Wind Dir	Wind Gusts (MPH)	Station Pressure (in. hg)	Press Tend	Net 3-hr Chg (mb)	Sea Level Pressure (in. hg)	Report Type	Precip. Total (in)	Altimeter (in. hg)	
						(F)	(C)	(F)	(C)	(F)	(C)												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
25	0548	0	BKN250	40.00		M	M	M	M	M	M	M	11	160		28.25			M	AA		29.72	
25	0653	0	BKN250	40.00		M	M	M	M	M	M	M	M	11	180		28.27			M	AA		29.74
25	0747	0	BKN250	40.00		M	M	M	M	M	M	M	M	17	200	23	28.29			M	AA		29.76
25	0847	0	BKN250	40.00		M	M	M	M	M	M	M	M	17	210	23	28.29			M	AA		29.76
25	0947	0	FEW060 SCT150	40.00		M	M	M	M	M	M	M	M	23	210	29	28.30			M	AA		29.77
25	1050	0	FEW060	40.00		M	M	M	M	M	M	M	M	23	220	29	28.28			M	AA		29.75
25	1253	0	FEW060	40.00		M	M	M	M	M	M	M	M	22	200	30	28.25			M	AA		29.72
25	1352	0	FEW060	40.00		M	M	M	M	M	M	M	M	17	180	33	28.22			M	AA		29.69
25	1454	0	FEW060	40.00		M	M	M	M	M	M	M	M	17	240	40	28.20			M	AA		29.67
25	1547	0	FEW060	40.00		M	M	M	M	M	M	M	M	23	240	40	28.19			M	AA		29.66
25	1647	0	FEW060	20.00		M	M	M	M	M	M	M	M	17	230	40	28.20			M	AA		29.67
25	1747	0	CLRs	20.00		M	M	M	M	M	M	M	M	17	230	29	28.21			M	AA		29.68
25	1847	0	CLRs	20.00		M	M	M	M	M	M	M	M	17	240	28	28.21			M	AA		29.68
25	1947	0	CLRs	20.00		M	M	M	M	M	M	M	M	9	240	17	28.23			M	AA		29.70

Dynamically generated Tue Aug 30 12:52:01 EDT 2016 via <http://www.ncdc.noaa.gov/qclcd/QCLCD>

U.S. Department of Commerce
National Oceanic & Atmospheric Administration

QUALITY CONTROLLED LOCAL
CLIMATOLOGICAL DATA
(final)
HOURLY OBSERVATIONS TABLE
GLENDALE MUNICIPAL AIRPORT (53126)
GLENDALE, AZ
(04/2016)

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801

Elevation: 1066 ft. above sea level

Latitude: 33.527

Longitude: -112.295

Data Version: VER2

Date	Time (LST)	Station Type	Sky Conditions	Visibility (SM)	Weather Type	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Humd %	Wind Speed (MPH)	Wind Dir	Wind Gusts (MPH)	Station Pressure (in. hg)	Press Tend	Net 3-hr Chg (mb)	Sea Level Pressure (in. hg)	Report Type	Precip. Total (in)	Alti-meter (in. hg)
						(F)	(C)	(F)	(C)	(F)	(C)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
25	0547	0	BKN200	20.00		68	20.0	57	13.8	48	9.0	49	8	190		28.62		M	AA		29.75	
25	0650	0	BKN200	20.00		68	20.0	51	10.6	34	1.0	29	15	180	26	28.63		M	AA		29.76	
25	0747	0	SCT200	20.00		70	21.0	52	11.1	34	1.0	27	11	190		28.66		M	AA		29.79	
25	0855	0	FEW100 SCT200	20.00		70	21.0	51	10.8	32	0.0	25	14	180	21	28.67		M	AA		29.80	
25	0950	0	FEW100 FEW200	20.00		72	22.0	52	11.2	32	0.0	23	15	210	22	28.66		M	AA		29.79	
25	1048	0	FEW100	10.00		73	23.0	52	10.8	28	-2.0	19	23	210	30	28.65		M	AA		29.78	
25	1148	0	FEW100	10.00		75	24.0	52	11.3	28	-2.0	18	17	170	29	28.63		M	AA		29.76	
25	1249	0	FEW100	10.00		81	27.0	51	10.5	9	-13.0	6	25	180	39	28.59		M	AA		29.72	
25	1350	0	FEW100	10.00		81	27.0	51	10.5	9	-13.0	6	26	200	37	28.58		M	AA		29.71	
25	1447	0	FEW100	10.00		79	26.0	51	10.3	12	-11.0	8	25	190	36	28.58		M	AA		29.71	
25	1547	0	FEW100	10.00		79	26.0	50	10.1	10	-12.0	7	30	210	38	28.56		M	AA		29.69	
25	1652	0	FEW100	10.00		77	25.0	50	10.0	14	-10.0	9	28	200	39	28.56		M	AA		29.69	
25	1747	0	FEW100	10.00		75	24.0	49	9.5	14	-10.0	10	16	190	28	28.57		M	AA		29.70	
25	1847	0	FEW100	10.00		73	23.0	49	9.2	16	-9.0	11	21	200	29	28.57		M	AA		29.70	
25	1947	0	FEW100	10.00		72	22.0	49	9.1	18	-8.0	13	15	200	22	28.58		M	AA		29.71	

Dynamically generated Tue Aug 30 12:49:31 EDT 2016 via <http://www.ncdc.noaa.gov/qclcd/QCLCD>

U.S. Department of Commerce
National Oceanic & Atmospheric Administration

QUALITY CONTROLLED LOCAL
CLIMATOLOGICAL DATA
(final)
HOURLY OBSERVATIONS TABLE
PHOENIX GOODYEAR AIRPORT (03186)
GOODYEAR, AZ
(04/2016)

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801

Elevation: 968 ft. above sea level

Latitude: 33.416

Longitude: -112.383

Data Version: VER2

Date	Time (LST)	Station Type	Sky Conditions	Visibility (SM)	Weather Type	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Humd %	Wind Speed (MPH)	Wind Dir	Wind Gusts (MPH)	Station Pressure (in. hg)	Press Tend	Net 3-hr Chg (mb)	Sea Level Pressure (in. hg)	Report Type	Precip. Total (in)	Alti-meter (in. hg)
						(F)	(C)	(F)	(C)	(F)	(C)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
25	0547	0	BKN140 BKN250	10.00		66	19.0	56	13.3	48	9.0	52	7	250		28.71		M	AA		29.74	
25	0647	0	SCT140 BKN200 BKN250	10.00		66	19.0	50	10.2	34	1.0	31	9	230	17	28.73		M	AA		29.76	
25	0747	0	FEW140 SCT200 BKN250	10.00		70	21.0	52	11.1	34	1.0	27	20	230		28.75		M	AA		29.78	
25	0847	0	FEW080 SCT200 SCT250	10.00		72	22.0	52	10.9	30	-1.0	21	16	220	25	28.75		M	AA		29.78	
25	0947	0	FEW080 FEW200	10.00		73	23.0	52	11.1	30	-1.0	20	15	210	23	28.76		M	AA		29.79	
25	1047	0	FEW080	10.00		73	23.0	52	11.1	30	-1.0	20	10	220	18	28.75		M	AA		29.78	
25	1147	0	FEW080	10.00		77	25.0	53	11.6	27	-3.0	16	11	230	25	28.74		M	AA		29.77	
25	1247	0	SCT080	10.00		81	27.0	52	10.8	12	-11.0	7	21	220	32	28.69		M	AA		29.72	
25	1347	0	FEW100	10.00		82	28.0	52	11.2	14	-10.0	8	17	220	29	28.68		M	AA		29.71	
25	1447	0	FEW100	10.00		81	27.0	51	10.6	10	-12.0	7	21	240	34	28.67		M	AA		29.70	
25	1547	0	FEW120	10.00		79	26.0	50	10.1	10	-12.0	7	17	230	34	28.65		M	AA		29.68	
25	1647	0	FEW120	10.00		79	26.0	51	10.7	16	-9.0	9	14	240	29	28.66		M	AA		29.69	
25	1747	0	FEW120	10.00		75	24.0	50	10.0	19	-7.0	12	14	230	29	28.67		M	AA		29.70	
25	1847	0	FEW120	10.00		73	23.0	49	9.5	19	-7.0	13	11	240	23	28.67		M	AA		29.70	
25	1947	0	FEW120	10.00		72	22.0	49	9.3	19	-7.0	13	11	240		28.68		M	AA		29.71	
25	2047	0	FEW100	10.00		68	20.0	48	8.8	23	-5.0	18	7	260		28.69		M	AA		29.72	

Dynamically generated Tue Aug 30 12:51:05 EDT 2016 via <http://www.ncdc.noaa.gov/qclcd/QCLCD>

U.S. Department of Commerce
National Oceanic & Atmospheric Administration

**QUALITY CONTROLLED LOCAL
CLIMATOLOGICAL DATA
(final)
HOURLY OBSERVATIONS TABLE
LUKE AFB AIRPORT (23111)
GLENDALE, AZ
(04/2016)**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801

Elevation: 1085 ft. above sea level

Latitude: 33.55

Longitude: -112.366

Data Version: VER2

Date	Time (LST)	Station Type	Sky Conditions	Visibility (SM)	Weather Type	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Humd %	Wind Speed (MPH)	Wind Dir	Wind Gusts (MPH)	Station Pressure (in. hg)	Press Tend	Net 3-hr Chg (mb)	Sea Level Pressure (in. hg)	Report Type	Precip. Total (in)	Alti- meter (in. hg)
						(F)	(C)	(F)	(C)	(F)	(C)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
25	0058	0	CLR	10.00		73	22.7	52	11.3	31	-0.5	21	6	190		28.58			29.70	AA		29.73
25	0158	0	CLR	10.00		72	22.1	55	13.0	41	5.2	33	7	200		28.57			29.69	AA		29.72
25	0258	0	CLR	10.00		70	21.0	56	13.2	44	6.9	39	8	220		28.56			29.67	AA		29.71
25	0358	0	CLR	10.00		70	20.9	57	14.0	47	8.4	44	11	190		28.56			29.67	AA		29.71
25	0458	0	CLR	10.00		68	20.2	57	14.0	49	9.2	51	11	210		28.56			29.67	AA		29.71
25	0558	0	CLR	10.00		67	19.2	57	13.8	49	9.2	53	9	190		28.57			29.69	AA		29.72
25	0658	0	CLR	10.00		66	18.7	52	11.2	39	3.9	37	14	210		28.59			29.71	AA		29.74
25	0758	0	CLR	10.00		68	19.8	52	11.2	37	2.5	32	15	220		28.62			29.74	AA		29.77
25	0858	0	CLR	10.00		70	21.0	52	11.3	35	1.5	28	24	220		28.61			29.73	AA		29.76
25	0958	0	CLR	10.00		71	21.9	53	11.5	35	1.7	27	18	230		28.61			29.73	AA		29.76
25	1058	0	CLR	10.00		73	23.0	52	11.3	31	-0.6	21	23	220		28.60			29.72	AA	T	29.75
25	1158	0	CLR	10.00		76	24.5	52	11.0	25	-3.7	15	26	230	38	28.58			29.70	AA	T	29.73
25	1258	0	CLR	5.00	HZ	79	26.0	50	10.0	9	-12.9s	7	28	230	41	28.55			29.67	AA		29.70
25	1358	0	CLR	8.00		79	26.1	50	10.1	10	-12.2s	7	31	210	40	28.53			29.65	AA		29.68
25	1458	0	CLR	10.00		79	26.2	51	10.4	13	-10.4	8	28	240	36	28.52			29.64	AA		29.67
25	1558	0	CLR	9.00		78	25.7	50	10.1	13	-10.7	8	30	220	41	28.51			29.63	AA		29.66
25	1658	0	CLR	10.00		77	25.0	51	10.3	17	-8.4	10	26	220	36	28.52			29.64	AA		29.67
25	1758	0	CLR	10.00		75	24.1	50	9.9	18	-7.9	11	25	220	32	28.52			29.64	AA		29.67
25	1858	0	CLR	10.00		73	22.9	49	9.5	19	-7.5	13	18	220	25	28.53			29.65	AA		29.68
25	1958	0	CLR	10.00		71	21.4	49	9.3	21	-6.1	15	13	230		28.54			29.66	AA	T	29.69
25	2058	0	CLR	10.00		70	21.0	47	8.5	17	-8.2	13	11	270		28.54			29.66	AA	T	29.69
25	2158	0	SCT130	10.00		69	20.4	48	8.8	21	-6.1	16	10	210		28.56			29.68	AA	T	29.71
25	2225	0	BKN120	10.00		66	19.0	47	8.3	23	-5.0	19	14	250		28.57			M	AA		29.72
25	2258	0	FEW120	10.00		67	19.5	49	9.5	29	-1.9	24	14	280		28.58			29.70	AA		29.73
25	2358	0	CLR	10.00		64	18.0	48	9.1	31	-0.6	29	7	260		28.60			29.72	AA		29.75

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration

**QUALITY CONTROLLED LOCAL
CLIMATOLOGICAL DATA**

(final)

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801

**HOURLY OBSERVATIONS TABLE
PHOENIX SKY HARBOR INTL AIRPORT (23183)
PHOENIX, AZ
(04/2016)**

Elevation: 1107 ft. above sea level

Latitude: 33.427

Longitude: -112.003

Data Version: VER3

Date	Time (LST)	Station Type	Sky Conditions	Visibility (SM)	Weather Type	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Humd %	Wind Speed (MPH)	Wind Dir	Wind Gusts (MPH)	Station Pressure (in. hg)	Press Tend	Net 3-hr Chg (mb)	Sea Level Pressure (in. hg)	Report Type	Precip. Total (in)	Alti-meter (in. hg)
						(F)	(C)	(F)	(C)	(F)	(C)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
25	0051	11	FEW250	10.00		75	23.9	53	11.4	29	-1.7	18	7	140		28.56		29.68	AA		29.73	
25	0151	11	BKN250	10.00		74	23.3	53	11.9	33	0.6	22	6	200		28.55		29.67	AA		29.72	
25	0251	11	BKN250	10.00		73	22.8	54	12.2	36	2.2	26	5	170		28.55		29.67	AA		29.72	
25	0351	11	BKN250	10.00		73	22.8	55	12.6	38	3.3	28	7	270		28.55		29.67	AA		29.72	
25	0451	11	BKN250	10.00		72	22.2	55	12.8	40	4.4	31	3	250		28.55		29.67	AA		29.72	
25	0551	11	SCT140 BKN250	10.00		71	21.7	55	12.6	40	4.4	33	7	270		28.55		29.67	AA		29.72	
25	0651	11	FEW140 SCT220 BKN250	10.00		71	21.7	53	11.5	35	1.7	27	7	210		28.58		29.70	AA		29.75	
25	0751	11	FEW090 BKN250	10.00		71	21.7	52	11.0	32	0.0	24	16	230		28.60		29.72	AA		29.77	
25	0851	11	FEW100 SCT250	10.00		74	23.3	52	11.2	29	-1.7	19	20	240	33	28.59		29.71	AA		29.76	
25	0951	11	FEW100 FEW250	10.00		75	23.9	53	11.7	31	-0.6	20	20	230	30	28.60		29.72	AA		29.77	
25	1051	11	FEW120	10.00		76	24.4	51	10.3	19	-7.2	12	17	250	28	28.60		29.72	AA		29.77	
25	1151	11	FEW120	10.00		77	25.0	51	10.5	19	-7.2	11	24	230	36	28.57		29.70	AA		29.74	
25	1251	11	FEW120	10.00		78	25.6	51	10.3	15	-9.4	9	29	230	38	28.54		29.67	AA		29.71	
25	1351	11	FEW120	10.00		80	26.7	50	9.8	2	-16.7	5	29	230	41	28.52		29.65	AA		29.69	
25	1451	11	FEW120	10.00		80	26.7	50	10.0	5	-15.0	5	23	250	34	28.52		29.64	AA		29.69	
25	1551	11	FEW120	10.00		79	26.1	49	9.6	2	-16.7	5	21	250	37	28.50		29.62	AA		29.67	
25	1651	11	FEW120	10.00		77	25.0	49	9.3	6	-14.4	6	25	240	37	28.51		29.63	AA		29.68	
25	1751	11	FEW120	10.00		76	24.4	49	9.3	10	-12.2	8	20	240	33	28.51		29.64	AA		29.68	
25	1851	11	FEW120	10.00		74	23.3	48	8.8	10	-12.2	8	16	260	31	28.51		29.64	AA		29.68	
25	1951	11	FEW120	10.00		73	22.8	48	9.0	14	-10.0	10	15	260		28.53		29.65	AA		29.70	
25	2051	11	CLR	10.00		71	21.7	48	8.7	16	-8.9	12	10	250		28.53		29.66	AA		29.70	
25	2151	11	CLR	10.00		69	20.6	47	8.1	16	-8.9	13	10	260		28.54		29.67	AA		29.71	
25	2251	11	BKN150	10.00		68	20.0	46	7.7	14	-10.0	12	17	250	26	28.55		29.67	AA		29.72	
25	2351	11	FEW120 BKN150	10.00		67	19.4	47	8.1	20	-6.7	17	17	260		28.56		29.68	AA		29.73	

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration

**QUALITY CONTROLLED LOCAL
CLIMATOLOGICAL DATA**

(final)

**HOURLY OBSERVATIONS TABLE
SCOTTSDALE AIRPORT (03192)**

SCOTTSDALE, AZ

(04/2016)

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801

Elevation: 1473 ft. above sea level

Latitude: 33.622

Longitude: -111.910

Data Version: VER2

Date	Time (LST)	Station Type	Sky Conditions	Visibility (SM)	Weather Type	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Humd %	Wind Speed (MPH)	Wind Dir	Wind Gusts (MPH)	Station Pressure (in. hg)	Press Tend	Net 3-hr Chg (mb)	Sea Level Pressure (in. hg)	Report Type	Precip. Total (in)	Alti- meter (in. hg)
						(F)	(C)	(F)	(C)	(F)	(C)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
25	0053	12	CLR	10.00		75	23.9	52	11.2	28	-2.2	18	8	240		28.18			29.70	AA		29.77
25	0153	12	CLR	10.00		73	22.8	52	11.2	31	-0.6	21	6	230		28.17			29.69	AA		29.76
25	0253	12	CLR	10.00		71	21.7	51	10.7	31	-0.6	23	3	200		28.16			29.69	AA		29.75
25	0353	12	CLR	10.00		69	20.6	51	10.3	31	-0.6	24	3	270		28.16			29.68	AA		29.75
25	0453	12	CLR	10.00		68	20.0	51	10.8	35	1.7	30	3	VR		28.15			29.68	AA		29.74
25	0553	12	CLR	10.00		68	20.0	53	11.8	40	4.4	36	3	140		28.16			29.69	AA		29.75
25	0653	12	CLR	10.00		69	20.6	53	11.8	39	3.9	34	8	210		28.18			29.70	AA		29.77
25	0753	12	CLR	10.00		69	20.6	50	9.9	29	-1.7	22	15	230		28.20			29.73	AA		29.79
25	0853	12	CLR	10.00		71	21.7	49	9.6	24	-4.4	17	16	250	28	28.20			29.73	AA		29.79
25	0953	12	CLR	10.00		72	22.2	50	10.2	26	-3.3	18	15	200		28.20			29.73	AA		29.79
25	1053	12	CLR	10.00		74	23.3	50	9.9	21	-6.1	14	15	210	28	28.19			29.72	AA		29.78
25	1153	12	CLR	10.00		75	23.9	50	9.8	18	-7.8	11	20	240	34	28.18			29.70	AA		29.77
25	1253	12	CLR	10.00		76	24.4	50	9.9	17	-8.3	11	20	220	29	28.15			29.68	AA		29.74
25	1353	12	CLR	10.00		78	25.6	48	9.1	-1	-18.3s	4	22	240	36	28.13			29.66	AA		29.72
25	1453	12	CLR	10.00		77	25.0	48	8.9	-0	-17.8	5	20	220	36	28.11			29.64	AA		29.70
25	1553	12	FEW044	10.00		77	25.0	48	9.1	4	-15.6	6	20	230	37	28.10			29.63	AA		29.69
25	1653	12	CLR	10.00		75	23.9	48	8.6	5	-15.0	6	21	260	31	28.12			29.65	AA		29.71
25	1753	12	CLR	10.00		74	23.3	48	8.7	9	-12.8	8	20	240	25	28.12			29.65	AA		29.71
25	1853	12	CLR	10.00		72	22.2	47	8.3	11	-11.7	9	11	240	22	28.12			29.65	AA		29.71
25	1953	12	CLR	10.00		71	21.7	47	8.2	12	-11.1	10	11	250		28.14			29.67	AA		29.73
25	2053	12	CLR	10.00		70	21.1	47	8.1	14	-10.0	11	11	250		28.15			29.68	AA		29.74
25	2153	12	CLR	10.00		68	20.0	46	7.5	13	-10.6	12	6	240		28.15			29.68	AA		29.74
25	2253	12	FEW120	10.00		68	20.0	46	7.8	16	-8.9	13	11	240	18	28.15			29.68	AA		29.74
25	2353	12	FEW090 SCT110	10.00		66	18.9	46	7.9	21	-6.1	18	11	260	22	28.15			29.69	AA		29.74

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration

**QUALITY CONTROLLED LOCAL
CLIMATOLOGICAL DATA**
(final)
HOURLY OBSERVATIONS TABLE
WILLIAMS GATEWAY AIRPORT (23104)
PHOENIX, AZ
(04/2016)

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801

Elevation: 1382 ft. above sea level

Latitude: 33.3

Longitude: -111.666

Data Version: VER2

Date	Time (LST)	Station Type	Sky Conditions	Visibility (SM)	Weather Type	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Humd %	Wind Speed (MPH)	Wind Dir	Wind Gusts (MPH)	Station Pressure (in. hg)	Press Tend	Net 3-hr Chg (mb)	Sea Level Pressure (in. hg)	Report Type	Precip. Total (in)	Alti- meter (in. hg)
1	2	3	4	5	6	(F)	(C)	(F)	(C)	(F)	(C)	13	14	15	16	17	18	19	20	21	22	23
25	0015	0	CLR	10.00		70	21.0	51	10.4	30	-1.0	23	9	200		28.32			M	AA		29.78
25	0035	0	CLR	10.00		68	20.0	50	9.9	30	-1.0	24	6	170		28.32			M	AA		29.78
25	0055	0	CLR	10.00		70	21.0	51	10.7	32	0.0	25	8	200		28.31			M	AA		29.77
25	0115	0	CLR	10.00		70	21.0	52	11.1	34	1.0	27	7	190		28.31			M	AA		29.77
25	0135	0	CLR	10.00		64	18.0	49	9.6	34	1.0	33	8	180		28.30			M	AA		29.76
25	0155	0	CLR	10.00		70	21.0	52	11.1	34	1.0	27	10	190		28.30			M	AA		29.76
25	0215	0	CLR	10.00		70	21.0	52	11.1	34	1.0	27	10	190		28.29			M	AA		29.75
25	0235	0	CLR	10.00		70	21.0	52	11.1	34	1.0	27	8	190		28.29			M	AA		29.75
25	0255	0	CLR	10.00		66	19.0	50	10.1	34	1.0	31	6	170		28.29			M	AA		29.75
25	0315	0	CLR	10.00		68	20.0	51	10.6	34	1.0	29	6	200		28.29			M	AA		29.75
25	0335	0	CLR	10.00		68	20.0	52	11.0	36	2.0	31	7	190		28.29			M	AA		29.75
25	0355	0	CLR	10.00		64	18.0	50	10.0	36	2.0	36	7	160		28.29			M	AA		29.75
25	0415	0	CLR	10.00		64	18.0	51	10.2	37	3.0	37	8	200		28.29			M	AA		29.75
25	0435	0	CLR	10.00		68	20.0	54	12.1	41	5.0	38	7	220		28.30			M	AA		29.76
25	0453	0	SCT200	20.00		64	18.0	52	11.1	41	5.0	43	6	170		28.30			M	AA		29.76
25	0553	0	BKN150	30.00		63	17.0	51	10.4	39	4.0	41	7	150		28.30			M	AA		29.76
25	0647	0	SCT250	45.00		66	19.0	54	12.1	43	6.0	43	6	180		28.32			M	AA		29.78
25	0747	0	FEW150 SCT200	45.00		70	21.0	55	13.0	43	6.0	38	9	220	15s	28.34			M	AA		29.80
25	0847	0	SCT250	45.00		72	22.0	56	13.4	43	6.0	35	6	270	16	28.34			M	AA		29.80
25	0947	0	FEW120 SCT250	45.00		72	22.0	56	13.4	43	6.0	35	13	230	25	28.35			M	AA		29.81
25	1047	0	FEW120 SCT250	30.00		75	24.0	51	10.8	25	-4.0	15	20	250	25	28.34			M	AA		29.80
25	1147	0	FEW120	20.00		75	24.0	50	9.8	18	-8.0	11	24	250	34	28.32			M	AA		29.78
25	1247	0	SCT200	10.00		77	25.0	51	10.4	19	-7.0	11	31	240	38	28.30			M	AA		29.76
25	1347	0	SCT200	10.00		79	26.0	51	10.4	14	-10.0	8	18	270	33	28.29			M	AA		29.75
25	1447	0	FEW050	5.00	BLDU	79	26.0	50	10.0	9	-13.0	7	23	250	37	28.27			M	AA		29.73
25	1547	0	CLRs	10.00		79	26.0	50	9.8	7	-14.0	6	26	250	38	28.25			M	AA		29.71
25	1653	0	CLRs	20.00		77	25.0	48	9.1	3	-16.0	5	49	250	63	28.25			M	AA		29.71
25	1747	0	CLRs	30.00		75	24.0	48	8.8	7	-14.0	7	20	260	29	28.25			M	AA		29.71
25	1848	0	CLRs	20.00		73	23.0	47	8.4	9	-13.0	8	36	270		28.25			M	AA		29.71
25	1950	0	CLRs	20.00		70	21.0	46	7.9	12	-11.0	10	8	270		28.27			M	AA		29.73
25	2047	0	CLRs	20.00		70	21.0	47	8.1	14	-10.0	11	9	290		28.27			M	AA		29.73
25	2147	0	CLRs	20.00		66	19.0	45	7.1	14	-10.0	13	7	260		28.28			M	AA		29.74
25	2250	0	CLRs	20.00		61	16.0	44	6.3	19	-7.0	20	7	230		28.28			M	AA		29.74
25	2347	0	SCT250	20.00		63	17.0	44	6.9	19	-7.0	18	9	240		28.30			M	AA		29.76

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NWS SRRS PRODUCTS FOR:
20160425

FXUS65 KPSR 251546

AFDPSR

AREA FORECAST DISCUSSION

NATIONAL WEATHER SERVICE PHOENIX AZ

846 AM MST MON APR 25 2016

.SYNOPSIS...

SEVERAL WEATHER DISTURBANCES WILL PASS THROUGH THE REGION THIS WEEK BRINGING OCCASIONALLY STRONGER WIND GUSTS...COOLER THAN NORMAL TEMPERATURES...AND A REMOTE CHANCE OF AN ISOLATED SHOWER. THE FIRST SYSTEM WILL MOVE INTO THE AREA TODAY WITH STRONG WINDS AND SOME BLOWING DUST. THE NEXT AREA OF LOW PRESSURE WILL AFFECT THE REGION THURSDAY WITH MORE BREEZY CONDITIONS AND AN OUTSIDE CHANCE OF SHOWERS AND THUNDERSTORMS OVER HIGHER TERRAIN NORTH AND EAST OF PHOENIX. THE FINAL DISTURBANCE WILL ROTATE TOWARDS THE REGION BY THE END OF THE WEEKEND.

&&

.DISCUSSION...

WINDY AND DRY CONDITIONS WILL BE THE WEATHER FOCUS TODAY AND GUSTY SOUTHWEST WINDS HAVE ALREADY DEVELOPED ACROSS MUCH OF THE REGION...WITH IN THE 20 TO 25 KT RANGE /23 TO 28 MPH/ OCCURRING ACROSS THE PHOENIX AREA AND ACROSS IMPERIAL COUNTY CA. STRONGER WINDS UPSTREAM ARE GENERATING SOME DUST RELATED IMPACTS...PARTICULARLY FOR TWENTYNINE PALMS WHERE VSBYS HAVE TRENDED DOWN TO 2 SM IN HAZE AND DUST. WITH THE WINDS JUST STARTING TO PICK UP ACROSS MUCH OF OUR FORECAST AREA THIS AM...HAVE YET TO RECEIVE ANY REPORTS OF DUST OR VSBY IMPACTS YET.

12Z RAOB ANALYSIS PLOTS THE 500MB LOW CIRC CENTER OVER SOUTHERN NV WITH UPSTREAM 500MB TEMPS -25 TO -26 C. INITIAL PV BAND/FRONTAL INTRUSION HAS WEAKENED AS IT CUTS ACROSS AZ WITH THE BAJA SPINE CIRRUS BLOW OFF NOW DISSIPATING AS THE BAND AND LIFT AREA BECOMES REMOVED FROM THE TERRAIN AND FURTHER INLAND. A SECONDARY VORT LOBE IS CUTTING THROUGH THE CA CENTRAL VALLEY RAPIDLY. TRAJECTORY OF THIS SECONDARY LOBE CUTS IT OVER PORTIONS OF THE CA COAST...POTENTIALLY DRAWING IN AND TRANSPORTING SOME MARINE MOISTURE UP THROUGH INTO THE ML ATMO LAYERS BY THE AFTN. LATEST HI-RES GUIDANCE AND OVERNIGHT DETERMINISTIC MODEL RUNS POINT TO SOME LIGHT SHOWER/QPF ACTIVITY IN A BROAD LINE FROM JTNP THROUGH PARKER AZ AND INTO PORTIONS OF WEST-CENTRAL AZ THIS AFTERNOON AND EVENING. NUDGED UP POPS TO VERY LOW END SLIGHT CHANCE PERCENTAGES THROUGH THOSE AREAS PARTICULARLY THIS AFTERNOON AND EARLY EVENING. BELOW AVERAGE TEMPERATURES /WHICH IS 88F IN PHOENIX AND 89F IN YUMA/ ARE FORECAST REGIONWIDE...SOLID UPPER 70S TO LOW 80S FOR MOST IN THE LOWER DESERT ELEVATIONS AND UPPER 60S FOR THE FOOTHILLS AND HIGH TERRAIN AREAS. UPDATES TO SKY TRENDS AND POPS/WX FOR TODAY TO MATCH CURRENT GUIDANCE. FIRE WEATHER AND WIND HEADLINES REMAIN IN EFFECT OR WILL START THROUGHOUT THE DAY.

&&

.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA AND KSDL...

A STRONG DRY COLD FRONT WILL MOVE THROUGH THE AREA EARLY TODAY BRINGING STRONG GUSTY SOUTHWEST WINDS TO THE REGION. SOUTHWEST WINDS WILL INCREASE BY LATE MORNING BECOMING GUSTY DURING THE AFTERNOON AT

25 TO 35 KNOTS. SOME LOFTED BLOWING DUST MAY BE GENERATED...BUT AT THIS POINT NOT EXPECTED TO POSE MUCH OF AN IMPACT TO AREA TERMINALS. GRADUAL DIMINISHING OF WINDS BY MIDNIGHT WITH WIND DIRECTIONS LIKELY REMAINING OUT OF THE WEST THROUGH MUCH OF TONIGHT.

SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH... STRONG SOUTHWEST WINDS WILL OCCUR THROUGH MUCH OF TODAY PEAKING IN INTENSITY LATE THIS AFTERNOON. WIND GUSTS OF 40 KTS ARE LIKELY FOR KIPL WITH SLIGHTLY LOWER SPEEDS AT KBLH. AREAS OF BLOWING DUST AND SAND MAY RESTRICT VSBYS TO UNDER 2 MILES AT TIMES...ESPECIALLY THIS AFTERNOON. WINDS WILL GRADUALLY DIMINISH AFTER MIDNIGHT. AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...

WEDNESDAY THROUGH SUNDAY...

ANOTHER STRONG PACIFIC LOW PRESSURE SYSTEM WILL BRING WELL BELOW NORMAL TEMPERATURES TO THE REGION FROM WEDNESDAY INTO FRIDAY ALONG WITH GUSTY WINDS AND EVEN A SLIGHT CHANCE FOR SHOWERS. HOWEVER...ELEVATED HUMIDITIES DURING THIS PERIOD WILL LIKELY KEEP FIRE DANGER LEVELS BELOW CRITICAL THRESHOLDS. DRY CONDITIONS AND SOMEWHAT WARMER TEMPERATURES WILL RETURN SATURDAY AND SUNDAY AS HIGH PRESSURE ATTEMPTS TO REBUILD OVER THE REGION FROM THE WEST...BUT WITH AFTERNOON BREEZES REMAINING A BIT STRONGER THAN NORMAL AS WINDS ALOFT REMAIN AT ELEVATED LEVELS.

&&

.SPOTTER INFORMATION STATEMENT...

SPOTTER ACTIVATION IS NOT EXPECTED.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...RED FLAG WARNING FROM 1 PM THIS AFTERNOON TO 8 PM MST THIS EVENING FOR AZZ131>133.

WIND ADVISORY FROM 1 PM THIS AFTERNOON TO 10 PM MST THIS EVENING FOR AZZ020>028.

CA...RED FLAG WARNING FROM 1 PM THIS AFTERNOON TO 8 PM PDT THIS EVENING FOR CAZ231.

WIND ADVISORY FROM 1 PM THIS AFTERNOON TO 10 PM PDT THIS EVENING FOR CAZ031-032.

WIND ADVISORY UNTIL 10 PM PDT THIS EVENING FOR CAZ030-033.

&&

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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...NOLTE

PREVIOUS DISCUSSION...MO

AVIATION...KUHLMAN

FIRE WEATHER...PERCHA

WWUS85 KPSR 251911

AWWPHX

AZZ023-252115-

AIRPORT WEATHER WARNING FOR SKY HARBOR AIRPORT

NATIONAL WEATHER SERVICE PHOENIX AZ

1211 PM MST MON APR 25 2016

...AIRPORT WEATHER WARNING FOR SKY HARBOR AIRPORT IN EFFECT UNTIL 315 PM MST...

THE NATIONAL WEATHER SERVICE IN PHOENIX HAS ISSUED AN AIRPORT WEATHER WARNING FOR SKY HARBOR AIRPORT FOR STRONG GUSTY WINDS.

STRONG GUSTY WEST WINDS WILL CONTINUE THROUGHOUT THIS AFTERNOON...AND INTO THE EARLY EVENING. GUSTS WILL RANGE 40 TO 45 MPH AT TIMES...BEGINNING TO DIMINISH AFTER 6 PM MST.
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WWUS75 KPSR 252013

NPWPSR

URGENT - WEATHER MESSAGE

NATIONAL WEATHER SERVICE PHOENIX AZ

113 PM MST MON APR 25 2016

.A COLD FRONT WILL SWEEP ACROSS SOUTHERN CALIFORNIA AND ARIZONA TODAY LEADING TO STRONG WINDS AND AREAS OF BLOWING DUST.

AZZ020-025>028-CAZ031-033-260500-

/O.NEW.KPSR.DU.Y.0006.160425T2013Z-160426T0500Z/

/O.CON.KPSR.WI.Y.0008.000000T0000Z-160426T0500Z/

LOWER COLORADO RIVER VALLEY AZ-YUMA/MARTINEZ LAKE AND VICINITY-

SOUTHWEST DESERTS-SOUTHWEST MARICOPA COUNTY-

NORTHWEST AND NORTH CENTRAL PINAL COUNTY-

LOWER COLORADO RIVER VALLEY CA-IMPERIAL COUNTY-

INCLUDING THE CITIES OF...EHRENBERG...PARKER...

FORTUNA FOOTHILLS...SAN LUIS...SOMERTON...YUMA...DATELAND...

TACNA...WELLTON...GILA BEND...APACHE JUNCTION...CASA GRANDE...

COOLIDGE...FLORENCE...BLYTHE...BRAWLEY...CALEXICO...EL CENTRO...

GLAMIS...IMPERIAL...THE SALTON SEA

113 PM MST MON APR 25 2016 /113 PM PDT MON APR 25 2016/

...BLOWING DUST ADVISORY IN EFFECT UNTIL 10 PM MST /10 PM PDT/
THIS EVENING...

...WIND ADVISORY REMAINS IN EFFECT UNTIL 10 PM MST /10 PM PDT/
THIS EVENING...

THE NATIONAL WEATHER SERVICE IN PHOENIX HAS ISSUED A BLOWING DUST ADVISORY...WHICH IS IN EFFECT UNTIL 10 PM MST /10 PM PDT/ THIS EVENING.

* AFFECTED AREA...THE LOWER DESERTS OF SOUTH-CENTRAL AND SOUTHWEST ARIZONA AND SOUTHEAST CALIFORNIA. THIS INCLUDES GILA BEND...CASA GRANDE...MARICOPA...COOLIDGE...YUMA...TACNA...EL CENTRO...IMPERIAL AND INTERSTATES 10...8 AND LOCAL HIGHWAYS THROUGH THESE AREAS INCLUDING AZ 347...AZ 85...U.S. HIGHWAY 95 AND CA 78.

* TIMING...THIS AFTERNOON AND EVENING.

* WINDS...WESTERLY AT 20 TO 30 MPH WITH GUSTS OF 40 TO 45 MPH.

* VISIBILITY...DOWN BELOW 1 MILE AT TIMES WITH LOCALIZED DUST CHANNELS/STREAMS AND FOR BRIEF PERIODS. BROADER REGIONAL VISIBILITY DEGRADATION TO PERSIST INTO THE AFTERNOON AND EVENING HOURS.

* IMPACTS...HAZARDOUS DRIVING CONDITIONS DUE TO AREAS OF REDUCED VISIBILITY IN BLOWING DUST AS WELL AS STRONG CROSS WINDS ON NORTH-SOUTH ORIENTED ROADWAYS. AFFECTED ROADWAYS INCLUDE INTERSTATE 8...INTERSTATE 10...AND HIGHWAY 347.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA CAUTION.

BE READY FOR A SUDDEN DROP IN VISIBILITY. IF YOU ENCOUNTER BLOWING DUST OR BLOWING SAND ON THE ROADWAY OR SEE IT APPROACHING...PULL OFF THE ROAD AS FAR AS POSSIBLE AND PUT YOUR VEHICLE IN PARK. TURN THE LIGHTS ALL THE WAY OFF AND KEEP YOUR FOOT OFF THE BRAKE PEDAL.

REMEMBER...PULL ASIDE...STAY ALIVE.

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AZZ021>024-CAZ030-032-260500-

/O.CON.KPSR.WI.Y.0008.000000T0000Z-160426T0500Z/

WEST CENTRAL DESERTS-NORTHWEST MARICOPA COUNTY-

GREATER PHOENIX AREA-

SOUTHERN GILA COUNTY/TONTO NATIONAL FOREST FOOTHILLS-

JOSHUA TREE NATIONAL PARK-RIVERSIDE COUNTY/EASTERN DESERTS-

INCLUDING THE CITIES OF...BOUSE...QUARTZSITE...SALOME...BUCKEYE...

LAKE PLEASANT...MORRISTOWN...NEW RIVER...TONOPAH...WICKENBURG...

CAREFREE...CAVE CREEK...CHANDLER...FOUNTAIN HILLS...GILBERT...

GLENDAL...MESA...PEORIA...PHOENIX...SCOTTSDALE...SUN CITY...

TEMPE...GLOBE...MIAMI...SAN CARLOS...SUPERIOR...

TOP-OF-THE-WORLD...ALSO INCLUDING APACHE...BARTLETT...CANYON...

HORSESHOE...ROOSEVELT...AND SAGUARO LAKES...

COTTONWOOD VISITOR CENTER...KEYS VIEW...LOST HORSE...

CHIRIACO SUMMIT...DESERT CENTER...EAGLE MOUNTAIN

113 PM MST MON APR 25 2016 /113 PM PDT MON APR 25 2016/

...WIND ADVISORY REMAINS IN EFFECT UNTIL 10 PM MST /10 PM PDT/

THIS EVENING...

* AFFECTED AREA...THE LOWER DESERTS AND HIGHER TERRAIN OF SOUTH-CENTRAL AZ. THIS INCLUDES THE GREATER PHOENIX METROPOLITAN AREA...GLOBE...THE SALT RIVER RECREATIONAL LAKES AS WELL AS INTERSTATE 10 THROUGHOUT THE AREA.

* TIMING...THIS AFTERNOON AND EVENING.

* WINDS...WESTERLY AT 20 TO 30 MPH WITH GUSTS OF 40 TO 45 MPH.

* IMPACTS...HAZARDOUS DRIVING CONDITIONS DUE TO AREAS OF REDUCED VISIBILITY IN BLOWING DUST AS WELL AS STRONG CROSS WINDS ON NORTH-SOUTH ORIENTED ROADWAYS. AFFECTED ROADWAYS INCLUDE INTERSTATE 10 AND U.S. HIGHWAY 60.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA CAUTION.

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WWUS85 KPSR 252114

RFWPSR

URGENT - FIRE WEATHER MESSAGE

NATIONAL WEATHER SERVICE PHOENIX AZ

214 PM MST MON APR 25 2016

AZZ131>133-CAZ231-260300-

/O.CON.KPSR.FW.W.0004.000000T0000Z-160426T0300Z/

ARIZONA FIRE WEATHER ZONE 131

YUMA/MARTINEZ LAKE AND VICINITY/LOWER COLORADO RIVER VALLEY AZ-

ARIZONA FIRE WEATHER ZONE 132

SOUTH-CENTRAL AND SOUTHWEST DESERTS-

ARIZONA FIRE WEATHER ZONE 133

SOUTHERN GILA COUNTY/TONTO NATIONAL FOREST FOOTHILLS-

CALIFORNIA FIRE WEATHER ZONE 231

LOWER COLORADO RIVER VALLEY CA-

214 PM MST MON APR 25 2016 /214 PM PDT MON APR 25 2016/

...RED FLAG WARNING REMAINS IN EFFECT UNTIL 8 PM MST /8 PM PDT/
THIS EVENING FOR STRONG WINDS...LOW RELATIVE HUMIDITY AND HIGH TO
VERY HIGH FIRE DANGER FOR SOUTHWEST AND SOUTH-CENTRAL ARIZONA AND
THE LOWER COLORADO RIVER VALLEY...

* AFFECTED AREA...IN ARIZONA...YUMA/MARTINEZ LAKE AND
VICINITY/LOWER COLORADO RIVER VALLEY AZ...SOUTH-CENTRAL AND
SOUTHWEST DESERTS AND SOUTHERN GILA COUNTY/TONTO NATIONAL
FOREST FOOTHILLS. IN CALIFORNIA...LOWER COLORADO RIVER VALLEY
CA.

* WINDS...WEST 20 TO 30 MPH WITH GUSTS UP TO 45 MPH.

* TIMING...EARLY AFTERNOON THROUGH MID EVENING TODAY.

* RELATIVE HUMIDITY...AS LOW AS 5 PERCENT.

* IMPACTS...FUELS ARE DRY AND FIRE DANGER IS HIGH TO VERY HIGH.
THESE CONDITIONS...COMBINED WITH LOW RELATIVE HUMIDITY AND
STRONG WINDS WILL LEAD TO WIDESPREAD HAZARDOUS FIRE WEATHER
CONDITIONS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

PLEASE ADVISE THE APPROPRIATE OFFICIALS AND FIRE CREWS IN THE
FIELD OF THIS RED FLAG WARNING.

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NATIONAL WEATHER SERVICE PHOENIX IS ON THE INTERNET AT
WEATHER.GOV/PHOENIX

WWUS85 KPSR 252205

AWWPHX

AZZ023-260100-

AIRPORT WEATHER WARNING FOR SKY HARBOR AIRPORT

NATIONAL WEATHER SERVICE PHOENIX AZ

305 PM MST MON APR 25 2016

...AIRPORT WEATHER WARNING FOR SKY HARBOR AIRPORT IN EFFECT UNTIL
600 PM MST...

THE NATIONAL WEATHER SERVICE IN PHOENIX HAS ISSUED AN AIRPORT WEATHER
WARNING FOR SKY HARBOR AIRPORT FOR STRONG GUSTY WINDS.

STRONG GUSTY WEST WINDS WILL CONTINUE THROUGHOUT THIS AFTERNOON...AND
INTO THE EARLY EVENING. GUSTS WILL RANGE 40 TO 45 MPH AT
TIMES...BEGINNING TO DIMINISH AFTER 6 PM MST.

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FXUS65 KPSR 252206

AFDPSR

AREA FORECAST DISCUSSION

NATIONAL WEATHER SERVICE PHOENIX AZ

306 PM MST MON APR 25 2016

.SYNOPSIS...

SEVERAL WEATHER DISTURBANCES WILL PASS THROUGH THE REGION THIS WEEK
BRINGING OCCASIONALLY STRONGER WIND GUSTS...COOLER THAN NORMAL
TEMPERATURES...AND A REMOTE CHANCE OF AN ISOLATED SHOWER. THE FIRST
SYSTEM WILL MOVE INTO THE AREA TODAY WITH STRONG WINDS AND SOME
BLOWING DUST. THE NEXT AREA OF LOW PRESSURE WILL AFFECT THE REGION
THURSDAY WITH MORE BREEZY CONDITIONS AND AN OUTSIDE CHANCE OF
SHOWERS AND THUNDERSTORMS OVER HIGHER TERRAIN NORTH AND EAST OF
PHOENIX. THE FINAL DISTURBANCE WILL ROTATE TOWARDS THE REGION BY THE
END OF THE WEEKEND.

&&

.DISCUSSION...

POTENT SPRING TROUGH AND UPPER LOW CURRENTLY MOVING THROUGH THE

SOUTHWEST THIS AFTERNOON WITH STRONG GUSTY WINDS...DUST LOFTED AND CROSSING AREA ROADWAYS IN THE USUAL HOT SPOTS AND A TIGHTLY PACKED BOUNDARY BETWEEN DRY SUBSIDENT FLOW AND NARROW MOISTURE. DEWPOINTS ACROSS THE SOUTH-CENTRAL AZ DESERTS HAVE DIPPED AS LOW AS THE SINGLE DIGITS...WHILE THE COOLER TEMPERATURES ALOFT...STRONG 500MB HEIGHT FALLS AND LIMITED BUT NARROW MOISTURE BAND HAS ALLOWED SOME SNOW SHOWERS TO DEVELOP ACROSS NORTHERN AZ AND THE FLAGSTAFF AREA. WINDS THIS AFTERNOON HAVE GUSTED IN THE 30 TO 40 MPH FOR MANY OF THE LOWER DESERT SITES AND WILL CONTINUE INTO THE EVENING AS THE UPPER JET STREAK AND A SECONDARY VORT MAX CONTINUE TO TRACK ACROSS AZ. INITIAL VORT/FRONT BOUNDARY CLEARING OUT OF CENTRAL AZ NOW...WITH A SECONDARY POCKET OF LL TO ML FRONTOGENETICAL FORCING COMING THROUGH WITH THAT SECOND VORT LOBE TIMED INTO THE REGION LATER THIS EVENING AND OVERNIGHT. LATEST MODEL GUIDANCE SUGGEST THE SECONDARY VORT MAX WILL BEGIN TO DIG INTO SOUTHERN CA WHILE PIVOTING/BUCKLING THE UL JET AND PVU GRADIENT/BOUNDARY BACK ACROSS CENTRAL AZ DURING THE EVENING...KEEPING STRONG GUSTY WINDS IN THE FORECAST WELL AFTER SUNSET. CAA INTO THE REGION THROUGH MUCH OF THE ATMO COLUMN...LATEST 500MB TEMPS IN THE -22 TO -24 C RANGE OVER THE CENTRAL PART OF THE FORECAST AREA PER AMDAR SOUNDINGS...WILL ALLOW FOR A COOLER OVERNIGHT TEMPERATURE FORECAST IN SPITE OF CONTINUALLY MIXED CONDITIONS WITH THE WINDS. THE COLD CORE ALOFT IN CONJUNCTION WITH A VERY NARROW MOISTURE BOUNDARY COULD GEN UP SOME SHOWERS ACROSS THE WEST-CENTRAL AZ DESERTS INTO THE EVENING...ESPECIALLY AS THE PVU BAND BUCKLES ACROSS THE AREA BEFORE SUBSIDENCE FILLS IN BEHIND THE SECOND VORT BAND AND BEGINS TO STABILIZE THE AREA. WHERE PHOENIX OBSERVED POTENTIALLY THEIR FIRST 70F LOW TEMP OF THE YEAR...MORNING TEMPERATURES TUESDAY WILL BE 10 TO POSSIBLY 15 DEGREES COOLER. STRONG JET ENERGY ROUNDING THE BASE OF THE LONGWAVE TROUGH WILL RAPIDLY EJECT THE CIRCULATION CENTER EASTWARD ON TUESDAY IN A NEGATIVE TILT FASHION...SUPPORTING AN OUTBREAK OF SEVERE WEATHER THROUGHOUT THE CENTRAL AND SOUTHERN PLAINS. OVER THE SOUTHWEST...A DAMPENED SHORTWAVE RIDGE WILL BRIEFLY PREDOMINATE THE WEATHER PATTERN TUESDAY AND WEDNESDAY AS HEIGHTS ALOFT PARTIALLY REBOUND AHEAD OF ANOTHER COMBINATION OF DEEPENING VORTICITY CENTERS. NUMERICAL TEMPERATURE GUIDANCE DISPLAYS A SURPRISINGLY SMALL SPREAD YIELDING GOOD CONFIDENCE THAT READINGS WILL REMAIN IN A SLIGHTLY BELOW NORMAL CATEGORY.

WHILE THERE IS EXCELLENT AGREEMENT AMONG OPERATIONAL GLOBAL MODELS AND THEIR ASSOCIATED ENSEMBLE MEMBERS REGARDING THE OVERALL PATTERN DURING THE END OF THE WEEK...THERE IS STILL UNDERSTANDABLE DISCREPANCIES WITH RESPECT TO TIMING AND ORIENTATION OF DISCRETE FEATURES INCORPORATED IN THE WAVE TRAIN. TRENDS AMONG MODELS SEEMS TO BE SIDING TOWARDS A MORE RAPID APPROACH AND AMPLIFICATION OF THE NEXT WEATHER SYSTEM OVER CNTRL/NRN ARIZONA THURSDAY...WHICH SEEMS APPROPRIATE GIVEN A 110+KT JET RAPIDLY TRANSLATING DOWN THE WESTERN SIDE OF THE TROUGH AXIS. ALSO PREFER THE DETERMINISTIC ECMWF TYPE SOLUTION SUGGESTING 2 DISTINCT VORTICITY CENTERS CAPTURED IN THE FLOW REGIME AND ENHANCING VERTICAL MOTION FIELDS THROUGH THE REGION. WHILE THE TRAJECTORY OF THIS WAVE IS NOT OPTIMAL FOR WIDESPREAD RAINFALL...THERE ARE INDICATIONS OF SOME MOISTURE BEING SWEEPED INTO THE LOWER/MIDDLE ATMOSPHERE. FORECAST BUFR SOUNDINGS SHOW THE COMBINATION OF THE ANOMALOUS COLD CORE SPREADING OVER 5 G/KG BOUNDARY LAYER MOISTURE PROFILES YIELDING AROUND 200 J/KG MLCAPE DURING PEAK HEATING. GIVEN A FAVORABLE UPSLOPE SWLY WIND COMPONENT ADDING ADDITIONAL LIFT...A FEW SHOWERS/STORMS WILL BE POSSIBLE THURSDAY AFTERNOON NORTH AND EAST OF PHOENIX.

ENSEMBLE SPREAD GROWS SOMEWHAT LARGER BY THE WEEKEND THOUGH THE MAJORITY OF MEMBERS SUGGEST MORE ENERGY DIGGING TOWARDS THE SOUTHWEST AND REINFORCING LOWER HEIGHTS. AT THIS TIME GIVEN THE UNCERTAINTY...DID NOT GET TOO OVERZEALOUS WITH RAINFALL CHANCES OR MAGNITUDE OF COOLING YET IT IS CONCEIVABLE THAT MUCH COOLER AND UNSETTLED WEATHER WILL AGAIN GRACE THE REGION EARLY NEXT WEEK.

&&

.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA AND KSDL...
STRONG WESTERLY WINDS ASSOCIATED WITH A COLD FRONT MOVING ACROSS THE REGION WILL BEGIN TO DIMINISH AFTER SUNSET...WITH WIND SPEEDS LIKELY TO FALL AOB 10 KNOTS BY MIDNIGHT. A BRIEF PERIOD OF LIGHT EASTERLY WINDS IS LIKELY DURING THE EARLY TO MID-MORNING HOURS ON TUESDAY BEFORE REVERTING BACK TO A WESTERLY DIRECTION...IN THE 10-15KT RANGE...BY TUESDAY AFTERNOON. DRY CONDITIONS...WITH MAINLY CLEAR SKIES TO PREVAIL THROUGH THE TAF PERIOD...EXCEPT FOR POSSIBLE SLANT-RANGE VISIBILITY ISSUES FOR INBOUND AIRCRAFT DURING THE EVENING HOURS DUE TO LOFTED BLOWING DUST.

SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...
STRONG WESTERLY WINDS AND AREAS OF BLOWING DUST ASSOCIATED WITH UPPER LOW CENTER MOVING ACROSS THE REGION WILL BEGIN TO DIMINISH AFTER SUNSET...WITH WIND SPEEDS LIKELY TO FALL AOB 15 KNOTS BY MIDNIGHT...WITH LIGHTER WESTERLY TO SOUTHWESTERLY WINDS PREVAILING THROUGH THE REST OF THE NIGHT AND INTO TUESDAY. DRY CONDITIONS...WITH MAINLY CLEAR SKIES TO PREVAIL THROUGH THE TAF PERIOD.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...

THURSDAY THROUGH MONDAY...

ANOTHER STRONG PACIFIC LOW PRESSURE SYSTEM TO BRING WELL-BELOW NORMAL TEMPERATURES TO THE REGION FROM WEDNESDAY ONWARD INTO FRIDAY...ALONG WITH GUSTY WINDS...AND EVEN A SLIGHT CHANCE FOR SHOWERS. HOWEVER...ELEVATED HUMIDITIES DURING THIS PERIOD WILL LIKELY KEEP FIRE DANGER LEVELS BELOW CRITICAL THRESHOLDS. DRY CONDITIONS AND SOMEWHAT WARMER TEMPERATURES...NEAR SEASONAL NORMALS...TO RETURN ON SATURDAY AS HIGH PRESSURE ATTEMPTS TO REBUILD OVER THE REGION FROM THE WEST...BUT WITH AFTERNOON BREEZES REMAINING A BIT STRONGER THAN NORMAL...AS WINDS ALOFT REMAIN AT ELEVATED LEVELS. ANOTHER LOW PRESSURE SYSTEM MOVING INTO THE REGION DURING THE SUNDAY-MONDAY TIME PERIOD TO BRING BACK COOLER TEMPERATURES...ELEVATED WINDS AND HUMIDITIES...AND EVEN A SLIGHT CHANCE FOR SHOWERS OVER HIGHER TERRAIN OF SOUTH-CENTRAL ARIZONA.

&&

.SPOTTER INFORMATION STATEMENT...

SPOTTER ACTIVATION IS NOT EXPECTED.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...BLOWING DUST ADVISORY UNTIL 10 PM MST THIS EVENING FOR AZZ020-025>028.

RED FLAG WARNING UNTIL 8 PM MST THIS EVENING FOR AZZ131>133.

WIND ADVISORY UNTIL 10 PM MST THIS EVENING FOR AZZ020>028.

CA...BLOWING DUST ADVISORY UNTIL 10 PM PDT THIS EVENING FOR CAZ031-033.

RED FLAG WARNING UNTIL 8 PM PDT THIS EVENING FOR CAZ231.
WIND ADVISORY UNTIL 10 PM PDT THIS EVENING FOR CAZ030>033.

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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX
DISCUSSION...NOLTE/MO
AVIATION...PERCHA
FIRE WEATHER...PERCHA

WWUS75 KPSR 260344

NPWPSR

URGENT - WEATHER MESSAGE

NATIONAL WEATHER SERVICE PHOENIX AZ

844 PM MST MON APR 25 2016

AZZ020-025>028-CAZ031-033-260445-

/O.CAN.KPSR.DU.Y.0006.000000T0000Z-160426T0500Z/

/O.CAN.KPSR.WI.Y.0008.000000T0000Z-160426T0500Z/

LOWER COLORADO RIVER VALLEY AZ-YUMA/MARTINEZ LAKE AND VICINITY-

SOUTHWEST DESERTS-SOUTHWEST MARICOPA COUNTY-

NORTHWEST AND NORTH CENTRAL PINAL COUNTY-

LOWER COLORADO RIVER VALLEY CA-IMPERIAL COUNTY-

INCLUDING THE CITIES OF...EHRENBERG...PARKER...

FORTUNA FOOTHILLS...SAN LUIS...SOMERTON...YUMA...DATELAND...

TACNA...WELLTON...GILA BEND...APACHE JUNCTION...CASA GRANDE...

COOLIDGE...FLORENCE...BLYTHE...BRAWLEY...CALEXICO...EL CENTRO...

GLAMIS...IMPERIAL...THE SALTON SEA

844 PM MST MON APR 25 2016 /844 PM PDT MON APR 25 2016/

...BLOWING DUST ADVISORY IS CANCELLED...

...WIND ADVISORY IS CANCELLED...

THE NATIONAL WEATHER SERVICE IN PHOENIX HAS CANCELLED THE BLOWING
DUST ADVISORY. THE WIND ADVISORY HAS BEEN CANCELLED.

THE WIND AND BLOWING DUST ADVISORIES ISSUED EARLIER WERE CANCELLED
AT 830 PM MST.

STRONG WINDS THAT AT TIMES GUSTED TO BETWEEN 35 AND 45 MPH WERE
DIMINISHING MONDAY EVENING...COMING UNDER WIND ADVISORY CRITERIA.
HOWEVER...BREEZY WEST TO NORTHWEST WINDS IN THE 15 TO 25 MPH RANGE
SHOULD CONTINUE TO BLOW THROUGH EARLY TUESDAY MORNING.

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AZZ021>024-CAZ030-032-260445-

/O.CAN.KPSR.WI.Y.0008.000000T0000Z-160426T0500Z/

WEST CENTRAL DESERTS-NORTHWEST MARICOPA COUNTY-

GREATER PHOENIX AREA-

SOUTHERN GILA COUNTY/TONTO NATIONAL FOREST FOOTHILLS-

JOSHUA TREE NATIONAL PARK-RIVERSIDE COUNTY/EASTERN DESERTS-

INCLUDING THE CITIES OF...BOUSE...QUARTZSITE...SALOME...BUCKEYE...

LAKE PLEASANT...MORRISTOWN...NEW RIVER...TONOPAH...WICKENBURG...

CAREFREE...CAVE CREEK...CHANDLER...FOUNTAIN HILLS...GILBERT...

GLENDALE...MESA...PEORIA...PHOENIX...SCOTTSDALE...SUN CITY...

TEMPE...GLOBE...MIAMI...SAN CARLOS...SUPERIOR...

TOP-OF-THE-WORLD...ALSO INCLUDING APACHE...BARTLETT...CANYON...

HORSESHOE...ROOSEVELT...AND SAGUARO LAKES...

COTTONWOOD VISITOR CENTER...KEYS VIEW...LOST HORSE...

CHIRIACO SUMMIT...DESERT CENTER...EAGLE MOUNTAIN

844 PM MST MON APR 25 2016 /844 PM PDT MON APR 25 2016/

...WIND ADVISORY IS CANCELLED...

THE NATIONAL WEATHER SERVICE IN PHOENIX HAS CANCELLED THE WIND
ADVISORY AT 830 PM MST.

STRONG WINDS THAT AT TIMES GUSTED TO BETWEEN 35 AND 45 MPH WERE
DIMINISHING MONDAY EVENING...COMING UNDER WIND ADVISORY CRITERIA.
HOWEVER...BREEZY WEST TO NORTHWEST WINDS IN THE 15 TO 25 MPH RANGE
SHOULD CONTINUE TO BLOW THROUGH EARLY TUESDAY MORNING.
\$\$

FXUS65 KPSR 260348
AFDPSR

APPENDIX C

NOTICE OF PUBLIC COMMENT PERIOD

APPENDIX D

EXCEPTIONAL EVENT INITIAL NOTIFICATION FORM